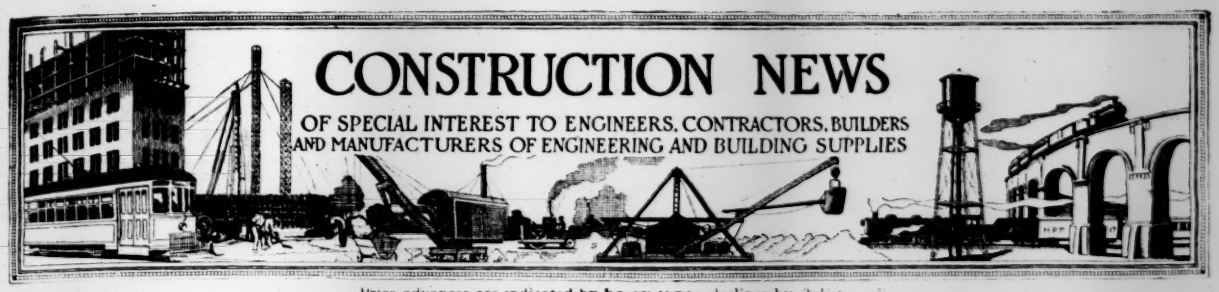

CONSTRUCTION NEWS

OF SPECIAL INTEREST TO ENGINEERS, CONTRACTORS, BUILDERS AND MANUFACTURERS OF ENGINEERING AND BUILDING SUPPLIES

Price advances are indicated by **heavy type**; declines by *italics*.

PIG IRON—

	Current	One Month Ago
CINCINNATI		
No. 2 Southern	$30.35	$30.35
Northern Basic	27.55	27.55
Southern Ohio No. 2	28.55	28.25
NEW YORK, tidewater delivery		
2X Virginia (silicon 2.25 to 2.75)	31.90	31.90
Southern No. 2 (silicon 2.25 to 2.75)	33.95	33.95
BIRMINGHAM		
No. 2 Foundry	26.25	26.25
PHILADELPHIA		
Eastern Pa.	30.65	30.65*
Virginia No. 2	30.85	30.85*
Basic	30.90	30.90*
Grey Forge	29.90	30.90*
CHICAGO		
No. 2 Foundry Local	26.75	26.75
No. 2 Foundry Southern	28.00	32.00
PITTSBURGH, including freight charge from the Valley		
No. 2 Foundry Valley	28.15	28.15
Basic	27.15	27.15
Bessemer	29.35	29.35

* F. o. b. furnace. † Delivered

RAILWAY SUPPLIES

STEEL RAILS—The following quotations are per ton f. o. b. Pittsburgh and Chicago for carload or larger lots. For less than carload lots 5c. per 100 lb. is charged extra:

	Pittsburgh		Chicago	
	Current	One Year Ago	Current	One Year Ago
Standard bessemer rails	$45.00	$55.00	$45.00	$65.00
Standard openhearth rails	47.00	57.00	47.00	67.00
Light rails, 8 to 10 lb.	2.58½*	3.13*	2.83½*	3.13 *
Light rails, 12 to 14 lb.	2.54*	3.09*	2.79*	3.09*
Light rails, 25 to 45 lb.	2.45*	3.00	2.70*	3.00*

*Per 100 lb.

TRACK SUPPLIES—The following prices are base per 100 lb. f.o.b. Pittsburgh for carload lots, together with the warehouse prices at the places named:

	Pittsburgh				San Francisco
	Current	One Year Ago	Chicago	St. Louis	
Standard spikes, ⅝-in. an., larger	$3.35	$3.90	$4.27	$4.44	$5.65
Track bolts	4.35	4.90	5.17	Premium	6.65
Standard section angle bars	3.00	3.25	4.22	Premium	4.60

RAILWAY TIES—For fair-sized orders, the following prices per tie hold:

		7 In. x 9 In. by 8 Ft. 6 In.	6 In. x 8 In. by 8 Ft.
Chicago	Plain	$1.48	$1.33
San Francisco	Douglas Fir—Green	1.35	.96
San Francisco	Douglas Fir—Creosoted	2.72	1.92

Prices per tie at Missouri mills; St. Louis prices about 25c. higher:

Untreated A Grade White Oak 6x8x8		Untreated A Grade Red Oak 6x8x8	
No. 1	$0.70	No. 1	$0.55
No. 2	.80	No. 2	.65
No. 3	.90	No. 3	.75
No. 4	.98		
7x9x8 white oak			1.05
7x9x8 red oak (No. 4)	$0.80	No. 5	.87

Note.—Add 36c. each for treatment.

PIPE

STEEL—From warehouses at the places named the following discounts hold for steel pipe:

	Black		
	New York	Chicago	St. Louis
¼ to 3 in. butt welded	47%	57.5%	45%
2½ to 6 in. lap welded	42%	53.5%	41½%

	Galvanized		
	New York	Chicago	St. Louis
¼ to 3 in. butt welded	31%	44%	30½%
2½ to 6 in. lap welded	27%	41%	27½%

Malleable fittings, Class B and C, from New York stock sell at +15% list prices. Cast iron, standard sizes 10% off.

CAST-IRON PIPE—The following are prices per net ton for carload lots:

	New York						
	Current	One Month Ago	One Year Ago	Chicago	St. Louis	San Francisco	Dallas
4 in.	*$53.00*	$55.70	$64.35	$54.80	$48.00	$72.50	$59.00
6 in. and over	*50.00*	52.70	61.35	51.80	45.00	69.55	56.00

Gas pipe and 16-ft. lengths are $1 per ton extra.

CLAY DRAIN TILE—The following prices are per 1000 lin ft.

	New York					
Size, In.	Current	One Year Ago	St. Louis	Chicago	San Francisco	Dallas
3	$35.00	$35.00	$22.50	$30.00		$33.44
4	51.00	51.00	27.00	40.00	$45.00	50.16
5	65.00	65.00	45.00	50.00	65.00	62.70
6	90.00	90.00	55.00	60.00	90.00	83.60
8	130.00	130.00	100.00	80.80	150.00	133.76

SEWER PIPE—The following prices are in cents per foot for carload lots:

	New York					
Size, In.	Current	One Year Ago	St. Louis	Chicago	San Francisco	Dallas
3	$0.081	$0.117		$0.09	$0.09	$0.132
4	.081	.117		.09	.15	.132
5	.1215	.1755		.135	.1875	.207
6	.1215	.1755	$0.16	.135	.225	.207
8	.189	.273	.21	.21	.3475	.2875
10	.283	.4095	.29	.315	.45	.4025
12	.365	.5265	.37	.405	.60	.5175
15	.480	.702	.56	.54	.9375	.7475
18	.675	.975	.91	.875	1.275	.9775
20	.81	1.17	1.14	1.05	1.71	1.15
22	1.08	1.56	1.46	1.40		1.495
24	1.215	1.80	1.56	1.80	2.125	1.725
27	2.015	2.60	1.90	2.75		2.5875
30	2.232	2.88	2.57	3.45		3.1625
33	2.79	3.60	3.09	4.00		4.025
36	3.18	4.10	3.37	4.35		4.60

	3	5	8	12	24	36†
Boston	$0.093	$0.1395	$0.217	$0.4185	$1.395	$4.6125
St. Paul	.12	.18	.28	.45	2.00	4.75
Denver	.105	.16	.25	.425	1.57	
Seattle	.15		.3375	.64	2.00	
Kansas City	.12	.18	.25	.50	1.00	4.60
Los Angeles	.0825	.1375	.2475	.44	1.50	
New Orleans			50 per cent. off			
Cincinnati	.08	.12	.19	.36½	1.21½	2.76½
Atlanta			.34	.55	2.00	
Montreal			40 per cent. off			
Winnipeg	.09	.16	.30	.50	2.00	

†4-in., 6-in., 30-in. respectively.

ROAD AND PAVING MATERIALS

ROAD OILS—Following are prices per gallon in tank cars 8000 gal. minimum f.o.b. place named:

	Current	One Month Ago
New York, 45-65% asphalt	$0.045	$0.05
New York, liquid asphalt	.060	.065
New York, binder	.065	.07
New York, flux	.0475	.05
St. Louis, 40% asphalt	.06	.06
Chicago, 15-20% asphalt	.10	.10
Chicago, 100% dust layer	.11	.11
Dallas, 40-50% asphalt	.07	.09
Dallas, 60-70% asphalt	.08	.10
Dallas, 75-90% asphalt	.10	.10
San Francisco, 75-95% asphalt, per bbl	2.10	2.10

ASPHALTUM—Price per ton in packages and bulk in carload lots:

	Brand	Package	Bulk
New York	Texaco	$20.00	*$15.00*
Chicago	Mexican	33.00	31.00
San Francisco	California	17.00	13.75
Dallas	Texaco and Mexican	32.00	30.00
Seattle	D grade	23.10	
Denver	Trinidad	45.00	
Denver	California	38.00	
St. Paul	Mexican	21.00	
Kansas City	Mexican	28.00	**26.00**
Atlanta	Standard	24.00	**19.80**
New Orleans		16.50	
St. Louis	Stanolind	24.90	18.40

PAVING STONE—

Chicago	About 4x8x4 dressed	2.45 sq.yd.
	About 4x8x4 common	2.20 sq.yd.
San Francisco	Basalt block 4x7x8	57.75 per M
Kansas City	Granite	2.75 sq.yd.
Boston	5-in. granite	110.00 per M
St. Paul	Sandstone	1.75 sq.yd.
New Orleans	No. 1 granite	1.70 sq.yd.

FLAGGING—

New York	Bronx	$0.20 sq.ft.
	Manhattan	.21 sq.ft.
	Queens, 5 ft. square	.20 sq.ft.
	5x20-in. cross-walk	.70 lin.ft.
Chicago	18 in. wide	.70 lin.ft.

WOOD BLOCK PAVING—

	Size of Block	Treatment	Per Sq.Yd.
New York	3½	16	$3.25
New York	4	16	3.50
Chicago	4	16	3.10
Chicago	3½	16	2.95
Chicago	City specifications		3.10
St. Louis	3½	16	**2.45**
St. Louis	4	16	**2.70**
Seattle	4	16	2.55
Kansas City	4	16	3.00
St. Paul	3½		2.13
Dallas	3½	18	3.17
Dallas	4	18	3.56
New Orleans	3½	16	2.25

CONSTRUCTION MATERIALS

SAND AND GRAVEL—Price for cargo or carload lots is as follows, per cu.yd.

	Gravel 1½ In. Current	Gravel 1½ In. One Yr. Ago	Gravel ¾ In. Current	Gravel ¾ In. One Yr. Ago	Sand Current	Sand One Yr. Ago
New York	$2.00	$2.00	$2.00	$2.00	$1.25	$1.25
Denver	1.60	1.55	1.60	1.55	1.25	1.10
Chicago	*1.35*	1.40	*1.35*	1.40	1.35	1.30
Kansas City	2.50	2.15	3.00	3.00	1.00†	†.80
St. Louis*	1.78	1.00	1.82	1.00	1.68	1.10
Seattle	1.25	1.00	1.25	1.00	1.25	1.00
Dallas	2.00	2.00	2.00	2.00	1.50	1.40
St. Paul	1.25	1.00	1.35	1.40	.60	1.50
San Francisco	1.15	1.00	1.15	1.00	1.15	1.00
Boston	1.60	2.00	....	2.00	....	1.70
New Orleans	*2.40*	....	*2.40*	....	*1.20*	....
Cincinnati	....	1.15	....	1.15	1.35	1.15
Los Angeles	1.02	.85	1.02	.85	.70	‡.65
Atlanta	*2.00*‡	....	....	....	1.10‡	....
Montreal	1.20‡	....	....	....	*1.10*‡	....
Winnipeg	1.85	....	....	....	2.10	....

*Fine white sand, Pacific and Ottawa per ton, $6. †Kaw River sand is $1.50 per yd. ‡ per ton.

CRUSHED STONE—Price for cargo or carload lots is as follows, per cu.yd.:

	1½ In. Current	1½ In. One Year Ago	¾ In. Current	¾ In. One Year Ago
New York	$1.65-1.75	$1.60	$1.75-1.85	$1.75
Chicago	*1.30*	1.20	*1.30*	1.20
St. Louis	1.35	1.08	1.35	1.08
Dallas	2.25	1.51	2.25	1.55
San Francisco	1.15	1.00	1.15	1.00
Boston	3.00*	1.75	3.00*	1.75
St. Paul (dime)	1.15†	1.00	1.25	1.10
Denver	....	1.55	1.60	1.55
Kansas City	1.90	1.70	2.00	1.80
Seattle	1.50	1.10	1.50	1.10
Atlanta	2.25*	....	2.35*	....
Cincinnati	....	1.30	....	1.30
Montreal	1.90*	....	2.15*	....
Winnipeg	2.60	....	2.85	....

*Per ton at crusher. †Limestone; traprock, $1.60 and $1.80 per ton for 1½ and ¾-in., respectfully.

LIME—Warehouse prices:

	Hydrated per Ton Finished	Hydrated per Ton Common	Lump per 300-Lb. Barrel Finished	Lump per 300-Lb. Barrel Common
New York	$17.50	$14.50	$2.90	$2.65
Kansas City	22.00	21.00	2.30*	2.20*
Chicago	18.00	17.50	1.80*	1.10*
St. Louis	22.00	18.00	....	1.75*
Boston	22.75	18.75	3.75	3.40
Seattle	30.00	....	2.75†	....
San Francisco	19.00	....	....	2.00*
St. Paul	23.00	18.00	1.50*	1.40*
New Orleans	....	2.00	....	2.20
Atlanta	....	1.90*	1.75*	1.75*
Cincinnati	12.95	11.95	10.70‡	2.50*
Denver	20.00	20.00	....	15.00‡
Montreal	20.00	....	15.00‡	....
Winnipeg	16.35	....	.45 (bu.)	2.40

* 200-lb. barrels. † Per 180-lb. barrel. ‡ Per ton.
NOTE—Refund of 10c. per barrel.

NATURAL CEMENT—Price to dealers for 500 bbl. or over, f.o.b., exclusive of bags:

St. Paul (Austin)	$1.45
Kansas City (Ft. Scott)	1.40
New Orleans	2.52

PORTLAND CEMENT—Current prices are for barrels in carload lots, without bags, to contractors:

	Current	One Month Ago Without Bags	One Year Ago With Bags
New York	$2.30	$2.30	$2.59
Jersey City	2.27	2.27	2.50
Boston	2.42	2.42	2.81
Chicago	2.00	2.00	2.45
Pittsburgh	2.05	2.05	2.45
Cleveland	2.32	2.32	2.62
Detroit	2.08	2.08	2.68
Indianapolis	2.27	2.27	2.62
Toledo	2.12	2.12	2.62
Milwaukee	2.11	2.11	2.56
Duluth	2.10	2.10	2.60
Peoria	2.12	2.12	2.56
Cedar Rapids	2.18	2.18	2.68
Davenport	2.14	2.14	2.64
St. Louis	2.20	2.20	2.68
San Francisco	2.40	2.40	2.80
New Orleans	*2.36*	2.44	....
St. Paul	2.20	2.20	2.68
Denver	*2.57*	2.67	2.99
Kansas City	2.26	2.26	2.62
Seattle	2.53	2.53	2.83
Dallas	2.03	2.03	2.60
Atlanta	2.60	2.60	....
Cincinnati	2.90	....	2.41
Los Angeles	2.78	2.78	2.30
Montreal	2.50	2.50	....
Winnipeg	3.40	....	....

NOTE—Bag charge is generally 15c. each.

TRIANGLE MESH—Price per 100 sq.ft. in carload lots:

PLAIN 4-INCH x 4-INCH MESH

Style Number	Sectional Square per Ft.	Area Inches Width	Pitts-burgh	New York	Chicago	St. Louis	Dallas	San Fran-cisco
032	0.032		$0.92	$1.16	$0.98	$0.99	$1.13	$1.32
049	0.049		1.18	1.48	1.26	1.26	1.43	1.67
068	0.068		1.44	1.86	1.53	1.56	1.79	2.06
093	0.093		1.85	2.39	1.97	2.00	2.41	2.65
126	0.126		2.28	3.02	2.43	2.47	2.92	3.28
153	0.153		2.72	3.59	2.90	2.95	3.48	3.93
180	0.180		3.12	4.13	3.33	3.39	3.99	....
245	0.245		4.12	5.44	4.40	4.47	5.27	....
287	0.287		4.76	6.29	5.08	5.16	6.10	6.86
336	0.336		5.52	7.30	5.89	5.99	7.06	....
395	0.395		6.40	8.45	6.83	6.94	8.19	....

PAVING

036P	0.036	$0.71	$0.92	$0.76	$1.77	$0.80
053P	0.053	1.00	1.28	1.06	1.08	1.12
072P	0.072	1.26	1.66	1.34	1.37	1.45
097P	0.097	1.62	2.12	1.73	1.76	1.85
049R	0.049	1.00	1.28	1.06	1.08	1.12
067R	0.067	1.26	1.65	1.34	1.37	1.42
089R	0.089	1.62	3.11	1.73	1.76	1.88

Made in 16-, 20-, 24-, 28-, 32-, 36-, 40-, 44-, 48-, 52- and 56-in. widths in rolls 150-, 200- and 300-ft. lengths. Galvanized is about 10% higher.

EXPANDED METAL LATH—Prices in carload lots per 100 yd. for painted are as follows:

Gage	Weight	New York Current	New York One Year Ago	Chicago	St. Louis	San Francisco	Dallas
27	233	$29.10	$34.07	*$29.00*	$29.00	$34.00	$33.00
26	250	30.45	35.23	*30.50*	30.00	35.00	35.00
25	300	31.90	36.51	*32.00*	....	37.00	37.00
24	340	33.50	37.73	*33.00*	33.00	40.25	40.00
22	450	36.60	40.48	....	....	....	42.00

About 10% additional for smaller quantities.

BARS, CONCRETE REINFORCING—Following quotations are per 100 lb.

ROLLED FROM BILLETS

In.	Warehouse Mill Pittsburgh	New York Current	New York One Year Ago	Chicago	St. Louis	Dallas	San Francisco
½ and larger	$2.35	$3.37	$4.14½	$3.37	$3.69	$4.50	$4.60
⅝	2.40	3.42	4.19½	3.42	3.74	4.55	4.65
¾	2.45	3.47	4.24½	3.47	3.79	4.60	4.70
⅞	2.60	3.62	4.39½	3.62	4.04	4.75	4.85
1	2.85	3.87	4.64½	4.87	4.19	4.95	5.10

Twisted bars cut to length take extra of 27½c. per 100 lb. Extra on deformed bars, uncut, 7½c.

ROLLED FROM RAILS

	Chicago	St. Louis	Dallas		Chicago	St. Louis	Dallas
½ in. and larger	$3.45	$3.45	$4.55	⅝	$3.70	$3.70	....
¾	3.50	3.50	4.70	⅞	3.95	....	....
1	3.55	3.55	....				

BRICK—To contractors price per 1000 in cargo or carload lots is as follows:

	Common Current	Common One Month Ago	Common One Year Ago	Paving Brick	Paving Block
New York	$15.00	$15.00	$11.50	No Quotations	
Chicago	12.00	12.00	11.00	....	....
St. Louis, selected	16.00*	16.00	15.00	$26.00	....
St. Louis, salmon	10.00	10.00	9.00	....	....
Denver	12.00†	12.00†	9.50	....	....
Dallas	18.00	18.00	10.50	26.50	....
San Francisco	12.50	12.50	12.00	....	....
Boston	18.00	18.00	15.00	30.00	45.50
New Orleans	17.50	16.25	....	18.50	....
St. Paul	10.25	10.25	9.00	30.00	36.50
Kansas City	15.00	15.00	11.00	42.50	....
Seattle	15.00	15.00	12.00	36.00	....
Cincinnati	16.00	....	12.00	....	....
Atlanta	15.00	15.00	....	40.00	....
Los Angeles	12.50	12.50	7.00	....	....
Montreal	15.00	14.50	....	80.00	....
Winnipeg	12.00	....	....	....	....

* Hard brick, $14. † Salmon is $10 in Denver.

HOLLOW TILE—Price per block in carload lots for hollow building tile:

	New York Current	New York One Year Ago	Chicago	St. Louis	San Francisco	Dallas	Factory Perth Amboy, N. J.
4x12x12	$0.11475*	$0.10125	$0.08	$0.08	$0.1125	$0.1072	....
6x12x12	.153*	.13500	.112	.105	.15	.1474	$0.1512
8x12x12	.204*	....	.144	.15	....	.2010	.1944
10x12x12	....	....	.168	.173	....	.2546	.2268
12x12x12	....	....	.208	.208	....	.3082	.2916

*Delivered below 72nd St.

	4x12x12	8x12x12	12x12x12
Boston	$0.15	$0.25	$0.30
St. Paul	.056	.11	.162
Cincinnati	.0645	.12075	.1774
Kansas City	.0786	.15	.205
Denver	.125	.18	.25
Seattle	.09	.175	.30
Atlanta	.10	.13	.21
Los Angeles	.082	.154	.236
New Orleans	.165	.22	.325

STRUCTURAL MATERIAL—Following are base prices f.o.b. mill, Pittsburgh, together with quotations per 100 lb. from warehouses at places named:

	Mill Pitts-burgh	New York Cur-rent	New York 1 Yr. Ago	St. Louis	Chi-cago	San Fran-cisco	Dallas
Beams, 3 to 15 in.	$2.45	$3.47	$4.24½	$3.54	$3.47	$4.45	$4.50
Channels, 3 to 15 in.	2.45	3.47	4.24½	3.54	3.47	4.45	4.50
Angles, 3 to 6 in., ¼ in. thick	2.45	3.47	4.24½	3.54	3.47	4.45	4.50
Tees, 3 in. and larger	2.45	3.52	4.24½	3.54	3.47	4.70	4.50
Plates	2.66	3.67	4.49½	3.54	3.67	4.90	4.70

RIVETS—The following quotations are per 100 lb.:

STRUCTURAL

	Warehouse Mill Pittsburgh	New York Current	New York One Yr. Ago	Chi-cago	St. Louis	San Fran-cisco	Dallas
½ in. and larger	$4.20	*$4.72*	$6.14½	$4.72	$4.79	$6.05	$5.90

CONE HEAD BOILER

½ in. and larger	4.30	*4.82*	6.24½	4.82	4.89	6.15	5.00
⅝ and ¾	4.45	*4.97*	6.39½	4.97	5.04	6.30	6.15
⅞ and 1	4.70	*5.22*	6.74½	5.32	5.29	6.65	6.50

Lengths shorter than 1 in. take an extra of 50c. Lengths between 1 in. and 2 in. take an extra of 25c.

PREPARED ROOFINGS—Standard grade rubbered surface, complete with nails and cement, costs per square as follows in New York, St. Louis, Chicago and San Francisco:

	1-Ply c.l.	1-Ply l.c.l.	2-Ply c.l.	2-Ply l.c.l.	3-Ply c.l.	3-Ply l.c.
No. 1 grade	$1.45	$1.70	$1.80	$2.05	$2.15	$2.40
No. 2 grade	1.30	1.55	1.60	1.85	1.90	2.15

Asbestos asphalt-saturated Felt (14 lb. per square) costs $156 per 100 lb.

Slate-surfaced roofing (red and green) in rolls of 108 sq.ft. costs $2.00 per roll in carload lots and $2.25 for smaller quantities.

Shingles, red and green slate finish, cost $5.00 per square in carloads; $5.25 in smaller quantities, in Philadelphia.

ROOFING MATERIALS—Prices per ton f.o.b. New York and Chicago:

	Carload Lots N. Y.	Carload Lots Chicago	Less Than Carload Lots N. Y.	Less Than Carload Lots Chicago
Tar felt (14 lb. per square of 100 sq.ft.)	$60.00	$60.50	$61.00	$61.50
Tar pitch (in 400-lb. bbl.)	21.00	18.00	22.00	19.00
Asphalt pitch (in barrels)	34.00	34.00	37.50	37.50
Asphalt felt	*64.00*	*63.00*	*67.50*	*67.50*

SHEETS—Quotations are in cents per pound in various cities from warehouse also the base quotations from mill:

Blue Annealed	Large Mill Lots Pittsburgh	St. Louis	Chicago	San Francisco	—New York— Current	One Yr. Ago
No. 10	3.55	4.64	4.57	5.80	4.57	5.495
No. 12	3.60	4.69	4.62	5.75	4.62	5.545
No. 14	3.65	4.74	4.67	5.90	4.67	5.595
Black						
Nos. 18 and 20	4.15	5.24	5.17	6.75	5.17	6.295
*Nos. 22 and 24	4.20	5.29	5.22	6.80	5.22	6.345
*No. 26	4.25	5.34	5.27	6.95	5.27	6.395
*No. 28	4.35	5.44	5.37	7.05	5.37	6.595
Galvanized						
No. 10	4.70	5.79	5.72	....	5.50	6.845
No. 12	4.80	5.89	5.82	7.30	5.55	6.945
No. 14	4.80	5.89	5.82	7.30	5.60	6.945
Nos. 18 and 20	5.20	6.19	6.12	7.60	5.90	7.245
Nos. 22 and 24	5.25	6.34	6.25	7.75	6.05	7.295
*No. 26	5.40	6.49	6.42	7.90	6.20	7.445
*No. 28	5.70	6.79	6.72	8.20	6.50	7.745

*For painted corrugated sheets add 30c. per 1000 lb. for 25 to 28 gage; 25c. for 19 to 24 gages; for galvanized corrugated sheets add 15c., all gages.

LINSEED OIL—These prices are per gallon:

	New York Current	New York One Year Ago	Cleveland Current	Cleveland One Year Ago	Chicago Current	Chicago One Year Ago
Raw in barrel	$1.90	$1.61	$2.00	$1.70	$2.10	$1.66
5-gal. cans	2.03	1.71	2.25	1.85	2.30	1.86

WHITE AND RED LEAD—Base price per pound:

	Red Current Dry	Red Current In Oil	Red 1 Year Ago Dry	Red 1 Year Ago In Oil	White Current Dry and In Oil	White 1 Yr. Ago Dry and In Oil
100-lb. keg	13.00	14.50	11.25	11.00	13.00	10.50
25 and 50-lb. kegs	13.25	14.75	11.50	11.25	13.25	10.75
12½-lb. keg	13.50	15.00	11.75	11.50	13.50	11.00
5-lb. cans	15.00	16.50	13.25	13.00	15.00	13.00
1-lb. cans	16.00	17.50	13.25	13.00	16.00	13.00

500 lb. lots less 10% discount; 2000 lb. lots less 10-2½% discount.

LUMBER

San Francisco—Prices of rough Douglas fir No. 1 common, in more than carload lots:

	Lumber Prices in Yards at San Francisco 6-8-12 and 14 Ft.	10-16-18 and 20 Ft.	25 to 32
3x3 and 4	$29.50	$30.00	$33.00
3x6 and 8	30.50	31.00	34.00
4x4-6 and 8	31.00	32.00	35.00
3x10 and 12	31.00	32.00	35.00
3x14	31.50	32.50	35.50
4x10 and 12	31.00	32.00	35.00
4x14	32.00	33.00	36.00

	24 Ft. and Under	25 to 32 Ft.	33 to 40 Ft.
6x10	$30.50	$32.50	$33.50
6x14	32.00	34.00	35.00
8x10	30.50	32.50	35.50
8x14	32.00	34.00	35.00

New York, Chicago and St. Louis

	Southern Pine New York* 20 Ft. and Under	New York* 22-24 Ft.	Chicago 20 Ft. and Under	Chicago 22-24 Ft.	Yellow Pine St. Louis 20 Ft. and Under	St. Louis 22-24 Ft.
3x 4 to 8x 8	$43.00	$44.00	$41.00	$42.00	$37.00	$39.00
3x10 to 10x10	46.00	47.00	42.50	43.50	40.50	42.00
3x12 to 12x12	49.00	50.00	47.00	48.00	42.00	43.50
3x14 to 14x14	52.00	53.00	52.00	53.00	47.00	49.00
3x16 to 16x16	59.00	60.00	55.00	56.00	50.00	52.00
3x18 to 18x18	64.00	65.00	59.00	60.00	54.00	55.00
4x20 to 20x20	74.00	75.00	65.00	66.00	.....	.....

Over 24 ft.—Add $1 for each additional 2 ft. in length up to 40 ft. for sizes 12 x 12 and under; for sizes over 12 x 12 add $2. For merchantable add $2 to sizes 10 x 10 and under. For prime add $2 to the price of merchantable for all sizes.

Other Cities

	8 x 8-In. x 20-Ft. and Under P.	Fir	Hemlock	Spruce	12 x 12-In. 20 Ft. and Under P.	Fir
Boston	$50.00	$49.00	$48.00	$48.00	*$50.00*	$50.00
Cincinnati	40.00	45.00	41.00	.....	46.00	43.00
Kansas City	42.50	45.25	45.25	45.25	47.50	46.25
Seattle	21.50	21.50	21.50	21.50	21.50	21.50
New Orleans	40.00	.....	.....	.....	45.00	.....
St. Paul	50.00	53.00	46.00	46.00	57.00	55.00
Denver	.....	42.00	42.00	42.00	.....	43.00
Atlanta	48.00	53.00	48.00	58.00	58.00	63.00
Montreal	.....	.....	.....	.....	.....	B.C. 65.00
Winnipeg	38.00	38.00	.....	38.00	39.00	39.00

	1-In. Rough, 10 In. x 16 Ft. and Under P.	Fir	Hemlock	2-In. T. and Gr. 10 In. x 16 Ft. P.	Fir
Boston	$50.00	$50.00	$48.00	$50.00	$50.00
Cincinnati	41.00	43.00	41.00	39.00	41.00
Kansas City	58.75	62.75	62.75	60.75	69.00
Seattle	21.50	21.50	21.50	21.50	21.50
New Orleans	40.00	.....	.....	50.00	.....
St. Paul	51.00	47.00	40.00	51.00	46.00
Denver	.....	43.50	43.50	.....	40.00
Atlanta	37.50	55.00	.....	45.00	55.00
Los Angeles	.....	36.00	35.00	.....	.....
Montreal	60.00	58.00	44.00	60.00	.....
Winnipeg	105.00	105.00	.....	.....	.....

Dallas—Yellow pine. Price per M:

2x4 to 2x12—12, 14 and 16	$45.00
2x4 to 2x12—10, 18 and 20	47.50
2x4 to 2x12—22 and 24	50.00
4x4, 4x6, 6x6, 8x8 and 3x8	52.50
8x10, 10x10 and 3x10	*50.50*
2x12 and 3x12	57.50

NAILS—The following quotations are per keg from warehouse:

	Mill Pittsburgh	St. Louis	Chicago	San Francisco	Dallas
Wire	$3.25	$3.90	$3.90	$5.00	$5.00
Cut	4.25	*5.40*	5.50	6.40	6.40

FREIGHT RATES

On finished steel products in the Pittsburgh district, including plates, structural shapes, merchant steel, bars, pipe fittings, plain and galvanized wire nails, rivets, spikes, bolts, flat sheets (except planished), chains, etc., the following freight rates are effective in cents per 100 lb.:

Boston	$0.50	New Orleans	$0.38½
Buffalo	.17	New York	.27
Chicago	.27	Pacific Coast (all rail)	1.25*
Cincinnati	.23	Philadelphia	.24½
Cleveland	.17	St. Louis	.24
Denver	.99	St. Paul	.49½
Kansas City	.59		

Note—Add 3% transportation tax. * Minimum carload, 80,000 lb.

Contractors' Miscellaneous Supplies

STEEL SHEET PILING—The following price is base per 100 lb. f. o. b. Pittsburgh, with a comparison of a month and a year ago:

Current	One Month Ago	One Year Ago
$2.55	$2.55	$4

WIRE ROPE—Discounts from list price on regular grades of bright and galvanized are as follows:

	New York and St. Louis
Galvanized iron rigging	+ 12½%
Galvanized cast steel rigging	7½%
Bright plow steel	35%
Bright cast steel	22½%
Bright iron and iron tiller	5

San Francisco: Galvanized, less 5%, bright, less 25% off.
Chicago, +5 on galvanized, 30–2½ off on bright.

MANILA ROPE—For rope smaller than ¾-in. the price is ½ to 2c. extra; while for quantities amounting to less than 600 ft. there is an extra charge of 1c. The number of feet per pound for the various sizes is as follows: ¼-in., 8 ft., ⅜-in., 6; ½-in., 4½; ⅝-in., 3½; ¾-in., 2 ft. 10 in.; 1-in., 2 ft. 4 in. Following is price per pound for ¼-in. and larger, in 1200-ft. coils:

Boston	$0.26	Kansas City	$0.28½
New York	.27	New Orleans	.27½
Cincinnati	.29	Los Angeles	.26
Chicago	.26½	Seattle	.27½
St. Paul	.28	St. Louis	.26½
San Francisco	.26	Montreal	.30
Atlanta	.29½	Winnipeg	.39½
Denver	.29½		

EXPLOSIVES—Price per pound of dynamite in small lots and price per 25 lb. keg for black powder.

	Low Freezing 20%	Gelatin 40%	Gelatin 60%	Gelatin 80%	Black Powder
New York	.....	$0.27½	$0.30	.....	$2.40
Boston	$.2225	.2425	.2675	$.3100	2.40
Cincinnati	18.75	21.25 ₰	23.25	.....	2.35
Kansas City	.19	.2375	.2625	.30	2.45
New Orleans	.22½	.23½	.24½	.30½	.....
Seattle	.1425	.1850	.255	.315	1.90
Chicago	.1875	.2125	.2550	.2975	2.15
St. Paul	.19	.2375	.2675	.....	2.45
St. Louis	.19	.23½	.25½	.30	2.35
Denver	.1775	.22	.245	.2875	2.45
Dallas	.189	.225	.288	.342	2.75
Atlanta	.20	.225	.245	.....	2.45

POLES—For plain pine poles, delivered New York, the price is as follows:

10-in. butts, 5-in. tops, length 20-30 ft.	$9.00
12-in. butts, 6-in. tops, length 30-40 ft.	11.50
12-in. butts, 6-in. tops, length 41-50 ft.	12.50
14-in. butts, 6-in. tops, length 51-60 ft.	21.00
14-in. butts, 6-in. tops, length 61-71 ft.	23.50

Note—At the present time it is almost impossible to give accurate prices on poles. The above are only nominal.

	Dallas
6-in. x 20-ft.	$4.60
6-in. x 30-ft.	7.10
8-in. x 30-ft.	8.45
8-in. x 35-ft.	10.38

OLD MATERIAL—The prices following are per gross ton paid to dealers and producers in New York. In Chicago and St. Louis the quotations are per net ton and cover delivery at the buyer's works, including freight transfer charges.

	New York	Chicago	St. Louis
No. 1 railroad wrought	$19.50	$17.00	$18.50
Stove plate	15.50	17.00	17.00
No. 1 machinery cast	21.50	21.50	23.50
Machine shop turnings	9.00	6.65	9.00
Cast borings	9.50	9.50	9.00
Railroad malleable cast	14.00	16.00	15.50

SHIP SPIKES—Current prices per 100 lb.

In.	San Francisco Galv.	San Francisco Black	Seattle Black
½	$10.50	$8.50	$8.55
⅝	9.85	7.85	8.25
¾	9.70	7.70	8.30

Pittsburgh base, *$3.85* per 100 lb.

COMMON LABOR IN UNITED STATES AND CANADA

	Cents per Hour	Remarks
Atlanta	35	Plentiful
Baltimore	30–40	Building construction
Baltimore	45	Shipyards
Boston	45–50	Very plentiful
Chicago	70	Strike just settled
Montreal	35	Plentiful; strikes prevalent
New Orleans	30	Plentiful
New York	50	Concrete laborers
New York	57½	Masons' helpers
New York	60½	Plasterers' helpers
Winnipeg	50	Plentiful; strikes prevalent

PROPOSALS

"For Proposals Advertised see the pages immediately following the Construction News Section."

WATERWORKS

Bids Close			See Eng. News-Record
July	7	Brainerd, Minn.	June 26
July	7	Price, Utah	July 3
July	14	Mt. Pleasant, Utah	July 3
July	15	Denton, Mont.	June 19
July	16	Milwaukee, Wis.	June 26
July	16	Decorah, Ia.	June 12
		Adv. June 12 and 19.	
July	25	Akron, O.	July 3
		Adv. July 3.	
Aug.	1	Litchfield, Minn.	July 3

SEWERS

July	7	Muskegon, Mich.	July 3
		Adv. July 3.	
July	7	St. Paul, Minn.	
July	8	Clayton, Mo.	July 3
July	8	Leesburg, Fla.	July 3
July	9	Dearborn, Mich.	June 26
		Adv. June 26.	
July	10	Marysville, Kan.	July 3
July	10	Milwaukee, Wis.	June 26
July	14	North Mankota, Minn.	June 19
		Adv. June 19.	
July	15	Newman Grove, Neb.	July 3
July	16	Milaca, Minn.	June 19
Aug.	19	Kansas City, Mo.	July 3
		Adv. July 3.	

BRIDGES

July	7	McAlester, Okla.	June 19
		Adv. June 12 and 19.	
July	7	Monroe, Ga.	June 19
July	7	Camden, N. J.	June 26
		Adv. June 26.	
July	7	Adna, Wash.	June 26
July	7	Walnut Cove, N. C.	June 26
July	7	Miles City, Mont.	June 26
July	7	Duluth, Minn.	June 26
July	8	Reading, Pa.	June 26
		Adv. June 26.	
July	10	Adrian, Mich.	June 26
		Adv. June 26.	
July	10	Riparius, N. Y.	June 19
		Adv. June 19.	
July	14	Princeton, Minn.	June 19
July	14	Annapolis Royal, N. S.	July 3
July	15	Brookston, Minn.	June 26
July	15	Cedar Rapids, Mich.	June 19
		Adv. June 19.	
July	17	Elmira, N. Y.	June 19
		Adv. June 19.	
July	29	Jacksonville, Fla.	July 3
Aug.	4	Little Rock, Ark.	July 3
Aug.	19	Statesboro, Ga.	July 3
Aug.	20	Swainsboro, Ga.	July 3

STREETS AND ROADS

July	5	Omaha, Neb.	June 12
July	5	Brunswick, Ga.	June 12
		Adv. June 5 and 12.	
July	5	Ford, Mich.	June 26
July	6	Montreal, Que.	June 26
July	7	Port Angeles, Wash.	June 26
July	7	Alexandria, Pa.	June 26
July	7	Indianapolis, Ind.	June 5
July	7	Leesburg, Fla.	June 19
July	7	Sanford, Fla.	June 19
July	7	Albert Lea, Minn.	June 19
July	7	Woodstown, N. J.	June 19
		Adv. June 19.	
July	7	Riverside, Cal.	June 19
July	7	Oakland, Cal.	June 26
July	7	Coffeeville, Miss.	June 26
July	7	Ortonville, Minn.	June 26
July	7	Poteau, Okla.	June 26
July	7	Ellsworth, Kan.	June 26
July	7	Washington	June 26
July	7	Bay City, Mich.	July 3
		Adv. July 3.	
July	7	Harrisburg, Pa.	July 3
July	7	Pleasant Hill, Mo.	July 3
July	7	Abeeville, S. C.	July 3
July	7	Louisiana.	
July	8	Fairfield, Tex.	July 3
July	8	Bronson, Fla.	June 26
July	8	Nashville, N. C.	June 26
		Adv. June 26.	
July	8	Jersey City, N. J.	June 26
July	8	Fayetteville, Ark.	June 26
July	8	Omaha, Neb.	June 26
July	8	St. Louis, Mo.	June 26
July	8	Pipestone, Minn.	June 19
July	8	Harrisonville, W. Va.	June 19
July	8	Kingston, N. C.	June 19
July	8	Elkins, Va.	June 12
		Adv. June 12 and 19.	
July	8	Geneva, N. Y.	July 3
		Adv. July 3.	
July	9	Mantorville, Minn.	July 3
July	9	Halifax, N. S.	July 3
July	9	Wisconsin	July 3
July	9	Florida	July 3
July	9	Delaware	June 19
July	9	New Jersey	June 26
July	9	Springfield, Ill.	June 26
July	9	Palmerton, Pa.	June 26
		Adv. June 26.	
July	9	Illinois	June 26
July	10	Tennessee	June 26
		Adv. June 26.	
July	10	Georgetown, Del.	July 3
July	10	Indianola, Miss.	July 3
July	10	Port Huron, Mich.	July 3
July	10	Logan, Utah	July 3
July	10	Utah	July 3
July	10	Excelsior Springs, Mo.	July 3
July	11	Ohio	July 3
July	11	New Jersey	June 26
July	11	Appleton, Minn.	June 26
July	12	Racine, Wis.	June 26
July	12	Jamestown, N. D.	July 3
July	12	Windsor, Ont.	July 3
July	13	Galt, Ont.	July 3
July	14	Grand Rapids, Minn.	June 26
July	14	Fayetteville, W. Va.	June 26
July	14	Ivanhoe, Minn.	June 26
July	14	Cambridge, Minn.	June 26
July	14	Worthington, Minn.	June 26
July	14	Ebensburg, Pa.	July 3
		Adv. June 26 and July 3.	
July	14	Hollidaysburg, Pa.	July 3
		Adv. July 3.	
July	14	Washington	July 3
July	15	St. Louis, Mo.	June 26
July	15	Vermont	July 3
July	15	Huntington, W. Va.	July 3
July	15	Rochester, Minn.	July 3
July	16	Faribault, Minn.	July 3
		Adv. July 3.	
July	16	Indianapolis, Ind.	July 3
July	16	Springfield, O.	June 19
July	17	Red Wing, Minn.	July 3
July	17	Boston, Mass.	July 3
July	17	Pittsburgh, Pa.	
July	19	Brainerd, Minn.	July 3
July	20	Litchfield, Minn.	July 3
July	22	Rome, Ga.	July 3
July	25	St. Louis, Mo.	June 26
July	25	Kent, O.	July 3
		Adv. July 3.	
July	30	California	June 19

EXCAVATION AND DREDGING

July	10	Provo, Utah	July 3
July	15	Wapello, Ia.	June 26
		Adv. June 26.	
July	15	Marshalltown, Ia.	June 26
		Adv. June 26.	
Aug.	6	Kenton, O.	July 3

INDUSTRIAL WORKS

July	7	Sheboygan, Wis.	July 3
July	7	New York, N. Y.	July 3
July	8	Fond du lac, Wis.	July 3
July	9	Los Angeles, Cal.	June 19
July	15	Flushing, N. Y.	June 19
July	15	London, Ont.	July 3
July	20	Omaha, Neb.	July 3
Aug.	1	Duluth, Minn.	June 26
Aug.	1	Hastings, Minn.	May 15

BUILDINGS

July	4	West Bethlehem, Pa.	June 12
July	5	Mountain Lake, Minn.	June 19
July	7	Brooklyn, N. Y.	June 26
July	7	Sanitorium, N. C.	June 26
July	7	Chetek, Wis.	July 3
July	7	New York, N. Y.	July 3
July	7	Woodbury, N. J.	July 3
July	7	San Diego, Cal.	July 3
July	7	Brooklyn, N. Y.	July 3
July	7	Fredericksburg, Va.	July 3
July	8	Montclair, N. J.	July 3
		Adv. July 3.	
July	8	Wichita, Kan.	July 3
July	8	Philadelphia, Pa.	
July	8	Palatka, Fla.	June 26
July	8	Wellington, Kan.	June 26
July	9	Duluth, Minn.	June 26
July	9	Three Rivers, Que.	June 26
July	10	Port Jervis, N. Y.	June 26
July	10	Blooming Prairie, Minn.	June 19
July	10	Watertown, Conn.	July 3
July	11	Merced, Cal.	June 26
July	11	Gunnison, Colo.	July 3
July	14	Decatur, Mich.	July 3
July	15	Crookston, Minn.	July 3
July	15	Fraserville, Que.	June 12
July	15	Greybull, Wyo.	June 26
July	15	Brainerd, Minn.	June 26
July	17	Malone, N. Y.	June 26
July	17	Thiells, N. Y.	July 3
		Adv. July 3.	
July	18	Ivanhoe, Minn.	July 3
July	23	Montmatre, Sask.	July 3
July	23	Lorain, O.	June 26
July	23	Mechanicsburg, O.	July 3
July	24	Winona, Minn.	July 3
July	24	Minneapolis, Minn.	July 3
July	24	Bemidji, Minn.	July 3
July	29	Utica, N. Y.	July 3
		Adv. June 26 and July 3.	
July	30	Austin, Minn.	
Aug.	1	Gastonia, N. C.	June 26
Aug.	1	Kenosha, Wis.	June 26
Aug.	1	Virginia, Minn.	May 15
Aug.	1	Duluth, Minn.	June 19
Aug.	5	Willmar, Minn.	July 3
Aug.	24	St. Paul, Minn.	July 3

FEDERAL GOVERNMENT WORK

July	7	Steel—Philadelphia, Pa.	June 5
		Adv. June 5, 12 and 19.	
July	7	Paving Material—Galveston, Tex.	June 26
July	7	Locks and Dam—Pittsburgh, Pa.	June 12
		Adv. June 12 and 19.	
July	7	Gas Mains — Stapleton, N. Y.	June 19
		Adv. June 19.	
July	8	Gate—Operating Machinery—Cincinnati, O.	June 12
		Adv. June 12 and 19.	
July	8	Post Office — Pittsburg, Tex.	June 12
July	9	Post Office — Montevideo, Minn.	June 12
		Adv. June 5, 12 and 19.	
July	10	Post Office—Vinton, Ia.	June 19
July	15	Officers Quarters—Washington, D. C.	June 26
July	15	Officers Quarters—Wilmington, N. C.	June 26
July	16	School—Rapid City, S. D.	June 26
July	18	Silt Diversion Works—Los Angeles, Cal.	June 19
		Adv. June 19.	
July	21	Dredging—New York, N. Y.	June 26
		Adv. June 26.	
July	21	Dredging—Savannah, Ga.	June 26
		Adv. June 26.	
July	21	Dredging—Baltimore, Md.	June 26
		Adv. June 26.	
July	22	Dredging—Sault Ste. Marie, Mich.	June 26
		Adv. June 26.	
July	22	Post Office — Andalusia, Ala.	June 26
July	23	Cottage—Sorrento, Idaho.	June 26
July	23	Bridges—Leupp, Ariz.	June 26
July	23	Removing Wreck — New York, N. Y.	June 26
		Adv. June 26.	
July	24	Jetty—Jacksonville, Fla.	June 26
		Adv. June 26.	
July	24	Coal—Jacksonville, Fla.	June 26
		Adv. June 26.	
July	25	Dredging — Philadelphia, Pa.	June 26
		Adv. June 26.	
July	28	Stone—Cincinnati, O.	July 3
		Adv. July 3.	
July	28	Dredging and Filling—San Juan, P. R.	July 3
		Adv. July 3.	
July	31	Storehouse — Wilmington, Del.	July 3
		Adv. July 3.	
Aug.	26	Dredging—Honolulu, H. T.	June 26
		Adv. June 26.	

MISCELLANEOUS

July	7	Lighthouse Tower—Ottawa, Ont.	June 26
July	7	Incinerator—Sedalia, Mo.	June 26
July	7	Revetment—Toledo, O.	July 3
July	7	Cast Iron Pipe—Providence, R. I.	July 3
July	8	Cast Iron Pipe—Jersey City, N. J.	June 26
July	8	Masons Materials—Jersey City, N. J.	June 26
July	8	Water Gate-Boxes and Covers and Sewer Manholes—Furnaces and Boxes, Jersey City, N. J.	July 3
July	9	Wharf—Naramata, B. C.	June 26
July	11	Lift Gates—Los Angeles, Cal.	June 26
July	11	Wharf—Thessalon, Ont.	June 26
July	12	Copper Cable, etc., Winnipeg, Man.	July 3
July	14	Road Gravel—Cambridge, Mass.	June 26
		Adv. June 12 and 19.	
July	14	Fishway—Lawrence, Mass.	July 3
		Adv. July 3.	
July	15	Wharf — Connaught Sta. Ont.	July 3
July	15	Freight and Trailers, etc.—New York, N. Y.	June 19
July	15	Wharf—Ottawa, Ont.	June 26
July	16	Pumping Engine—Milwaukee, Wis.	June 26
July	24	Wharf—Berthier, Que.	July 3

Where name of official is not given, inquiries should be addressed to City Clerk, County Clerk or corresponding official.

Waterworks

PROPOSED WORK

Md., Baltimore — Brooklyn Center Co., 1025 Munsey Bldg., having plans prepared laying 4000 ft. 6 and 8 in. c.i. pipe in Brooklyn (city's new annex), to connect with city water system. About $8000. J. S. Howard, 12 East Lexington St., engr.

S. C., Batesburg—City election July 11 to vote on $60,000 bonds to extend waterworks system. Engineer not selected.

S. C., Orangeburg—City plans election to vote on $100,000 bonds to lay 4.1 mi. water mains in various streets. J. W. Hawes, city engr.

Ga., Royston—City having plans prepared building waterworks and sewerage systems. About $45,000. J. B. McCrary Co., 3rd Natl. Bank Bldg., Atlanta, engrs.

Fla., Ft. Myers—City election in August to vote on $45,000 bonds to extend water mains.

Fla., Marianna—See "Streets and Roads."

La., Ebenezer—City plans to build waterworks system. About $50,000.

Neb., Lincoln—City having plans prepared by G. W. Bates, city engr., for rein.-con. reservoir, 2,000,000 gal. capacity. About $35,000.

Okla., Okmulgee—City having plans prepared by Burns & McDonald, engrs., Interstate Bldg., Kansas City, Mo., improving waterworks including construction of dam and installation of equipment.

Ont., Acton—Town engaged James, Loudon & Hertzberg, engrs., 36 Toronto St., Toronto, to make surveys and submit preliminary report for complete new waterworks system. About $90,000.

BIDS DESIRED

N. Y., Thiells—See "Buildings."

O., Akron—Until July 25, by H. S. Morse, dir. pub. serv., Delaware Bldg., building elevated concrete water tank, 150,000 gal. capacity, supported by tower 70 ft. high to low water line; bids will be received on alternate designs shown on plans as follows: "A" monolithic tower and tank of rein.-con., "B" steel tower and tank enclosed in rein.-con. shell. H. H. Frost, supt. water works; advertised in this issue.

Minn., Litchfield—Until Aug. 1, by City Council, building addition to waterworks system and sewers. About $55,000. L. P. Wolff, 1001 Guardian Life Bldg., St. Paul, engr.

Utah, Mt. Pleasant—Until July 14, by A. Millson, city recdr., furnishing and laying 17,500 ft. 5 in. cement pipe, 16,000 ft. 6 in. wooden pipe and 33,000 lin.ft. trenching. Caldwell & Richards, Vermont Bldg., Salt Lake City, engrs.

Utah, Price—Until July 7 by M. Gilmer, city recdr., furnishing and laying 24.5 mi. cement, wood and c. i. water pipes. Jones & Olson, Price, engrs. Noted May 22.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★**N. Y., New York**—N. J. Hayes, comr. water supply, gas and electricity, Municipal Bldg., let contract furnishing, delivering and laying watermains and appurtenances in Riverside Dr., West 134th and West 142nd Sts., Manhattan Boro., and in East 147th, East 170th, Amethyst, Emmett and Rosewood Sts., and in Matthews, Newton, Olinville and Rhinelander Aves. and in Crotona Parkway, Elsmere Pl. and Unionport Rd., Bronx Boro., to C. Del Blasio, $28,300. Noted June 19.

★**N. Y., Ossining**—See "Buildings."

★**N. Y., Schenectady**—Bd. Contr. & Supply let contract laying watermains in various streets, to E. B. Edgar, 737 Brandywine Ave., $14,925.

★**O., Akron**—Coventry Land & Impvt. Co. let contract furnishing and laying 217 tons 6 and 8 in. c.i. water pipe and specials in Firestone Park, to T. E. McShaffrey Constr. Co., 173 South Forge St.

O., Bellevue—City received lowest 3 bids building impounding reservoir, involving 100,000 cu.yd. earth excav. and embankment, 20 x 26 ft. low service pumping station and 1500 to 3000 ft. 18 in. vitr. tile pipe, from F. R. Jones Co., Wayside Rd., Cleveland, $105,159, Gist Bros., Bellevue, $105,840, Harrington Bros., 3959 Flad Ave., St. Louis, Mo., $108,000; furnishing and erecting 2 gas engine driven centrifugal pumping units, from Baker-Dunbar-Allen Co., 1900 Euclid Bldg., Cleveland, $7600, Standard Mfg. Co., $8157, J. L. Skeldon Eng. Co., 242 Water St., Toledo, $13,260; furnishing and delivering chlorinator, from Wallace & Tiernan Co., $424, Baker-Dunbar-Allen Co., $500, R. E. Carey Co., $600. Noted May 22.

★**O., Toledo**—Comrs. Lucas Co. let contract to S. L. Cothrel, 341 Ohio Bldg., laying water line No. 7 in Norwood Dist., cost $39,421; water line No. 8 in North Collingwood Park, $43,491; water line No. 10 in Forest, Hickory and Upton Aves., $12,278. Noted June 5.

Minn., St. Paul—See "Streets & Roads."

Idaho, Buhl—City received bids improving waterworks system from Methesen Co., Buhl, steel pipe, $47,902; Snyder & McGarry, Buhl, iron pipe, $50,707.

Sewers

PROPOSED WORK

N. Y., Binghamton — Common Council plans to install sanitary sewer in Emma St. About $18,000. J. Giles, comr. pub. wks.

Md., Baltimore — Brooklyn Center Co., 1025 Munsey Bldg., having plans prepared laying 5600 ft. 8-18 in. double strength terra cotta pipe, involving 9000 yd. grading, in Brooklyn (city's new annex), to connect with municipal sewerage system. Cost between $12,000 and $18,000. J. S. Howard, 12 East Lexington St., engr.

W. Va., Clarksburg—See "Streets and Roads."

S. C., Batesburg—City election July 11, to vote on $40,000 bonds to build 3 mi. sewerage system in principal business and residential streets. Engineer not selected.

S. C., Orangeburg—City plans election to vote on $75,000 bonds to lay 4.4 mi. sanitary sewers and 1.7 mi. storm sewers in various streets, etc. J. W. Hawes, city engr.

Ga., Royston—See "Waterworks."

O., Cincinnati—City plans election in August to vote on $1,015,000 bonds to improve sewerage system.

O., Dayton—See "Streets and Roads."

O., Lakewood—City plans to build circular brick sewers in Edgewater Dr. from Nicholson Rd. to Webb Rd. E. A. Fisher, city engr.

Mich., Detroit—Dept. Pub. Wks. soon receives bids builing vitr. crock lateral sewers with standard brick manholes in alley No. 3070 in blocks bounded by Yosemite, Yellowstone, Joy and Elmhurst Aves., No. 3158 in Charlevoix Ave., from Connors Ave. to Connors Creek, No. 3159 in Waterloo Ave. from Connors Ave. to Connors Creek, No. 3160 bounded by Wilkemere, Linwood, Highland and Leslie Aves., No. 3161 bounded by Dexter, Lawton, Highland and Leslie Aves., No. 3162 bounded by Fairview and Lillibridge Aves., north of Warren Ave., No. 3163 bounded by Lillibridge, Benteau, Warren and Shoemaker Aves., No. 3164 bounded by Philip, Alter and Mack Aves. and north line Lodge sub-division, No. 3167 bounded by Martin St., Tarnow and Vernor Aves., and South line Harrah's Western Sub-division, No. 3168 bounded by Dexter, Lawton, Leslie and Buena Vista Aves., No. 3169 bounded by Wilkemere, Linwood, Leslie and Buena Vista Aves., No. 3068 bounded by Ohio, Tireman and Mackenzie Aves. and Detroit Terminal R. R., No. 3170 bounded by Richard and Cabot Sts. north of Woodmere Ave.

Minn., Hinckley — City voted $10,000 bonds to build sewerage system. A. J. Hunt, clk.

Neb Madison—City plans to lay 3400 ft. 30 in. storm sewer in 3rd St. About $15,000. W. D. J. Steckelberg, city engr.

S. D., Brookings—City voted $48,000 bonds to build storm sewers in various streets.

N. D., Grand Forks—See "Streets and Roads."

Wash., Yakima—City plans election soon to vote on $350,000 bonds to extend trunk sewerage system. C. F. Wilson, city engr.

Cal., South San Francisco—City voted $35,000 bonds to build sewerage system.

Ont., Acton—Town engaged James, Loudon & Hertzberg, engrs., 36 Toronto St., Toronto, to prepare preliminary surveys and submit report for building complete new sanitary sewerage system. About $60,000.

Ont., Comber—Twp. plans to expend $60,000 to build drainage system. S. T. Anderson, clk. J. J. Newman, Davis Blk., Windsor, engr.

BIDS DESIRED

N. Y., Thiells—See "Buildings."

Fla., Leesburg—Until July 8 by city, building sewers in various streets. About $50,000. J. B. McCrary Co., 3rd Natl. Bank Bldg., Atlanta, Ga., engrs.

Mich., Muskegon—Until July 7, by B. H. Tellman, city recdr., furnishing labor and material for building main and lateral sewer in Sewer Dist. No. 29, to be known as Highland Park Sewer Dist. No. 29, involving 1144 ft. 20 in. and 6588 ft. 8 in sewer, etc.; advertised in this issue.

Minn., Litchfield—See "Waterworks".

Minn., St. Paul—Until July 7, by H. W. Austin, purch. agt., City Hall, building storm water sewer in section Fairview Ave., also building sewers in Ross, Griggs, and Juno Sts., Dudley, Byard and Hamline Aves.

Kan., Marysville—Until July 10, by City Clk., laying 60,050 ft. 12-60 in. vitr. pipe, 13 manholes and 21 catch basins. C. McCrea, Republic Bldg., Kansas City, Mo., engrs.

Neb., Newman Grove—Until July 15, by city, building sanitary sewers in various streets involving 16,420 ft. 8 in., 2380 ft. 10 in., 2120 ft. 12 in., and 1060 ft. 15 in. vitr. pipe. W. E. Standeven, 141 Bee Bldg., Omaha, engr.

Mo., Clayton—Until July 8, by C. H. Holekamp, chn., Sewer Comn. of St. Louis Co., Joint Sanitary Sewer Dist. No. 1, at office of Co. Clk., building joint district sewers in St. Louis Co, L. C. Diatzko, special sewer engr.; advertised in this issue.

Mo., Kansas City—Until Aug. 19, by Bd. Pub. Wks., City Hall, building Turkey Creek Sewer. Work involves 2 sewer pumping stations, 1½ mi. rein.-con. sewer and 3½ mi. concrete, segment and clay pipe. Cost between $1,500,000 and $1,750,000. A. D. Ludlow, City Hall, engr of sewers; advertised in this issue.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★**Conn., Hartford**—City let contract building 500 ft. 48 in. concrete or block sewers in Nook Farm, to N. C. Casciano & Co., 208 Front St., $11,623. Noted June 26.

★**N. Y., Binghamton**—Schenectady Sewage Disposal Co., foot of Anthony St., Schenectady, sub-let contract completing Sect. 1 Binghamton Intercepting Sewer, to W. L. Fitzgerald, Binghamton. About $60,000.

★**N. Y., Utica**—Bd. Contr. & Supply let contract building sanitary sewer beginning at Eagle and St. Vincents Sts. and extending to Brookside Park Pl. and storm sewers in Mortimer, Leah, Eagle and St. Vincent Sts. and Conkling, Taylor, Brinckerhoff, Dudley and Seymour Aves., to F. M. Johnson, $15,355 and $29,568, respectively. Noted May 15.

★**O., Akron**—Dir. Pub. Serv. let contract building 2850 lin.ft. Wolf Ledge Run Storm Sewer, from Sherman to Kling Sts., involving 1480 lin.ft. 8-10 in. brick or rein.-con. sewer and 1370 lin.ft. 18-24 in. vitr. pipe, to J. Duff Constr. Co., Marshall Bldg., Cleveland, $98,602.

O., Cleveland—City received bids building 1510 ft. 2 ft. 6 in., 4 ft. brick sewers and 480 ft. 12-24 in. vitr. pipe, in Euclid Ave. from Ivanhoe Rd. to Reyburn Ave., from River Constr. Co., 12109 Mayfield Rd., $25,198; Manson Co., The Arcade, $27,225; W. P. Gibbons, 340 Leader-News Bldg., $29,184.

★**O., Toledo**—Comrs. Lucas Co. let contract building 30,300 ft. sewer in North Collingwood Park, involving 29,307 ft. 6-12 in. vitr. pipe, 1100 branches, 74 manholes.

Sewers (Continued)

1000 ft. 6 in. c.i. force main, 200 gal. centrifugal pump and concrete sewage lift, to J. N. Bick, 601 Nasby Bldg., $58,996; 1737 ft. 6-15 in. vitr. sewr pipe, etc., in Harris St., to T. J. Kelly, 626 Avondale St., $6401. Noted June 5.

★**Mich., Detroit**—Dept. Pub. Wks. let contracts building 10,513 ft. 13-18 ft. concrete arch sewer in Wetherby Ave., Sects. 1 and 2, to Nash Bros., 10 South La Salle St., Chicago, $990,479; 1251 ft. 5 ft. cylinder brick sewer in Harper Ave., Sects. A and B, to C. H. Bennett, 1008 Ford Bldg., $54,042; 8604 ft. 9-10 ft. cylinder concrete sewer in Lynch Rd., Sects. 3 and 4, to J. Connelly Constr. Co., Dime Bank Bldg., $438,700; 6000 ft. 10 ft. 6 in. cylinder concrete block sewer in Six Mile Rd., Sect. 1, to O'Rourke Eng. & Contg. Co. and Hoag & Dall, Commercial Bank Bldg., Cleveland, $379,560; 6709 ft. 10 ft. 6 in. cylinder concrete segmental block sewer on Six Mile Rd., Sect. 2, to Brandon & Hanna, 1624 Dime Bank Bldg., $422,000. Noted June 12.

★**Minn., Duluth**—City let contract building sanitary sewer in Wallace Ave. from 5th to Luther Sts., to C. R. McClean & Son, Duluth. About $47,000. Noted June 19.

Minn., St. Paul—See "Streets & Roads."

Okla., Oklahoma—City let contract building 4800 ft. sewers etc., in North Highland Park, to Municipal Excav. Co., 200 East Main St. About $21,000.

Cal., San Francisco—See "Streets and Roads."

Bridges

PROPOSED WORK

N. Y., Watertown—City voted $60,000 bonds to build rein.-con. bridge over Black River on Pearl St. Concrete Steel Eng. Co., engrs., 21 Park Row, New York City, will design and supervise engineering. Noted Mar. 6.

N. J., Rahway—Bd. Freeholders Union Co. (Elizabeth) soon lets contract building 93 ft. concrete and steel bridge over Rahway River, on Monroe St., 60 ft. wide. About $35,000. J. L. Baur, 120 Bway., Elizabeth, engr. Noted Apr. 3.

Fla., Miami—City having plans prepared building lift bridge over Miami River, on Ave. "G." About $70,000. C. W. Murray, city engr.

Wis., Sheboygan—Sheboygan Co. plans to build 330 ft. rein.-con. bridge with 7 arches, 40 ft. wide, over Waldo Cascade, concrete flooring, creosote block pavement and concrete foundation. About $25,000. G. Ubbelohde, Court House, engr.

Mont., Columbus—Stillwater Co. election Sept. 2 to vote on $12,000 bonds to build bridges. G. N. Cardoza, Columbus, engr.

Mont., Thompson Falls—Sanders Co. election Sept. 2 to vote on $75,000 bonds to build bridges. T. Johnston and A. M. Johnson, Thompson Falls, engrs.

Ont., Newmarket — Town having plans prepared by James, Loudon & Hertzberg, engrs., 36 Toronto St., Toronto, building 3 concrete slab and girder bridges, 28 to 40 ft. spans. About $40,000.

Roumania—Roumanian Bridge Comn., Hotel Cumberland, 54th St. and Bway., New York City, will consider proposals for submittal to Roumanian Government for furnishing and erecting all or part of bridges destroyed during war. Total amount of steel required is about 25,000 tons, largest bridge to be across Borcea branch of Danube River; advertised in this issue.

BIDS DESIRED

Ga., Statesboro—Until Aug. 12 (change of date), by Comrs. Bulloch Co., building 7 rein.-con. bridges on Dixie-Overland Highway. Total cost, $40,000. J. B. McCrary Co., 3rd Natl. Bank Bldg., Atlanta, engrs. Noted May 15.

Ga., Swainsboro—Until Aug. 20, by Comrs. Emanuel Co., building rein.-con. bridge over Big Ohoopee River. About $40,000. J. B. McCrary Co., 3rd Natl. Bank Bldg., Atlanta, engrs.

Fla., Jacksonville—Until July 29, by F. Brown, clk., Duval Co., building 2100 ft. bridge over St. Johns River. Noted Apr. 17.

Minn., Red Wing—See "Streets & Roads."

Neb., Lincoln—Until July 7, (change of date) by clk. Lancaster Co. building 100 ft. rein-con. bridge over Oak Creek, on 14th St. About $16,000. A. H. Edgren, co. engr. Noted June 26.

N. D., Jamestown—Until July 12, by A. Blewett, aud. Stutsman Co., building 12 wood and concrete bridges.

Ark., Little Rock—Until Aug. 4, by Bridge Comrs., 213 West 2nd St., building 1450 ft. rein.-con. bridge over Arkansas River, on Main St., 40 ft. wide between curbs, 8 ft. sidewalks on each side, 300 lin.ft. rein.con. approaches, 9 main piers extending from spring of arches to depth of from 10-80 ft. bedrock; also one 1091 ft. rein.-con. bridge over Arkansas River, on Bway. St., 40 ft. wide between curbs, 8 ft. sidewalk on each side, 1700 lin.ft. rein.-con. approaches, 6 principal piers extending from spring of arches to depth of from 40-63 ft. bedrock, each span 195 ft. long. Hedrick & Hedrick, Kansas City, Mo., bridge engrs.; advertised in this issue.

N. S., Annapolis Royal—Until July 14, by Provincial Highways Bd., Halifax, building 1360 ft. bridge, 28 ft. 6 in. wide, over Annapolis River, involving 710 cu.yd. concrete, 1100 cu.yd. stone and 6870 cu.yd. earth approach and fill. About $34,220. J. W. Roland, c/o Highway Bd., Halifax, engr.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

Pa., Harrisburg—State Highway Dept. received bids building bridges in counties as follows: (a) Adams Co., (1) 30 ft. span in Franklin Twp., (2) two 28 ft. spans, Franklin Twp., (3) 30 ft. Cumberland Twp., (4) 14 ft., Cumberland Twp., (5) 20 ft., Mt. Joy Twp.; (b) Clinton Co., (1) 10 ft. Beach Creek Twp., (2) 18 ft., Beach Creek Twp.; (c) Cumberland Co., 8 ft., Middlesex Twp.; (d) Dauphin Co., (1) 10 ft., Mifflin Twp., (2) 6 ft., Upper Paxton Twp.; (e) Juniata Co., (1) 8 ft., Fermanagh Twp., (2) 24 ft., Delaware Twp., (3) 20 ft., Delaware Twp., (4) 20 ft., Delaware Twp., (5) 20 ft., Monroe Twp., (6) 30 ft., Fayette Twp., (7) 30 ft., Delaware Twp.; (f) Lancaster Co., (1) 12 ft., Sadsbury Twp., (2) 12 ft., Earl Twp.; (g) Lebanon Co., (1) 5 ft., Union Twp., (2) 24 ft., South Londonderry Twp., (3) 8 ft., South Annville Twp., (4) 16 ft., East Hanover Twp., (5) 10 ft., Bethel Twp., (6) 12 ft. Bethel Twp., (7) 12 ft., Bethel Twp., (7) 12 ft., Bethel Twp.; (h) 24 ft., Carrol Twp., Perry Co.; (i) Snyder Co., (1) 12 ft., Washington Twp., (2) 12 ft., Perry Twp., (3) 12 ft., Spring Twp., (4) 12 ft., Beaver Twp., (5) 12 ft., Spring Twp., (6) 16 ft. Washington Twp., (7) 16 ft., Washington Twp., (8) 8 ft., Washington Twp., (9) 8 ft., Washington Twp., from W. H. Murphy & Sons, Harrisburg, (a1) $4060, (a2) $9654, (a3) $4957; G. W. Ensign, Inc., Harrisburg Bank Bldg., (a1) $3850, (a2) $7959 (a3) $4701, (a4) $1800, (c) $1323, (d1) $2248, (d2) $2161, (e1) $1811, (e5) $3707, (e6) $6198, (f1) $4573, (f2) $3941, (g1) 1531, (g3) 1897, (g4) $2783, (g5) $2361, (g6) $2361, (g7) $2526, (i1) $1986, (i2) $2189, (i6) $2325, (i8) $1343, (i9) $1345; S. W. Shoemaker & Son, 1545 North 6th St., (a1) $4504, (g4) $2961, (g5) $2278, (g6) $1635, (g7) $1785, (h) $5667; G. L. Shore & Son, Keswick, Va., (a2) $9077, (a5) $2797, (e1) $2064, (e5) $3802, (e6) $7137; O. B. S. Co., Phila., (a3) $5223, (e2) $3690; W. H. Drawbaugh, Dover, (a4) $1671, (a5) $2777, (c) $1730, (f1) $2242, (f2) $2409; J. W. Hartley, York, (a4) $1827, (a5) $2569; T. Leete, Coudersport, (b1) $1297, (b2) $2248; F. M. Shadel, Williamsport, (d1) $2064; J. H. Forney, Berrysburg, (d1) $1641, (d2) $1637; M. E. Wilt, Millersburg, (d2) $2296; Trimpey & Whipkey, Casselman, (e1) $1578, (e2) $3434, (e3) $2823, (e4) $2823, (e5) $3487, (e6) $6536, (e7) $4216, (i1) $1582, (i3) $1867, (i4) $1867, (i5) $1787, (i6) $2076, (i7) $2176, (i8) $1309, (i9) $1309; M. J. McHale (trading as McHale & Co.), Norwood, (e2) $3239, (e3) 2$755, (e4) $2755, (e7) $4090; H. F. Mackey, East Stroudsburg, (e3) $2871, (e4) $2871, (e7) $4356, (i7) $2350; A. R. Kreider, Lancaster, (f1) $1753, (f2) $1728; W. Swanger & Son, Lebanon, (g1) $1290, (g2) $2730, (g3) $1549, (g4) $2171, (g5) $1715, (g6) $1733, (g7) $2035; E. B. Keener, Colebrook, (g2) $3348; J. M. Eshleman, Landisville, (g2) $3082, (g3) $1867; A. Fauver, Laurelton, (i1) $1683, (i6) $1942, (i7) $1942, (i8) $1157, (i9) $1157; L. E. Stought, Beavertown, (i3) $1724, (i4) $1724, (i5) $1724. Noted May 29.

★**Ga., Metter**—Comrs. Candler Co. let contract building rein.-con. bridges and culverts, to Kreis & Waldrep, Knoxville, Tenn. About $26,000.

★**Ga., Swainsboro**—Comrs. Emanuel Co. let contract building 7 rein.-con. bridges on Dixie-Overland Highway, to Kreis & Waldrep, Knoxville, Tenn. About $84,000. Noted June 5.

★**Ga., Valdosta**—Lowndes Co. will build 2 rein.-con. slag bridges, 16 ft. wide, 350 and 400 ft. long, respectively. About $50,000. Work will be done by day labor.

★**Mich., Flint**—City let contract building 256 ft. steel truss bridge over Flint River on Texas Ave., 50 ft. wide, with 6 ft. walk on either side, to Illinois Steel Co., 1623 Monadnock Blk., Chicago. About $90,000.

★**Minn., Elk River**—Comrs. Sherburne Co. let contract building Bridge No. 3093, four 55 ft. rein.-con. girder spans, 20 ft. roadway, to W. S. Hewett, 530 Metropolitan Life Bldg., Minneapolis, $44,875.

★**Ariz., Cottonwood** — State Highway Comn., Phoenix, and Yavapai Co., let contract building 280 ft. Luton arch, rein.-con. bridge over Verde River, 7 mi. below Clarksdale, to Topeka Bridge & Iron Co., Stormont Bldg., Topeka, Kan., about $28,000. Noted June 12.

★**Cal., King City**—State Highway Comn., 515 Forum Bldg., Sacramento, let contract building bridge over Salinas River, here, to Monterey Co., to Healy-Tibbetts Co., 64 Main St., San Francisco. Noted June 5.

★**Man., Carman**—Municipal Council let contract building rein.-con. bridge on Portage Ave., to P. O. Petersen, 196 Johnston St., Winnipeg. About $17,290.

Reinforced Concrete

PROPOSED WORK

N. Y., Buffalo—See "Industrial Works."

N. J., Rahway—See "Bridges."

Ill., Chicago—See "Buildings."

Neb., Lincoln—See "Waterworks."

Cal., Sacramento — See "Industrial Works."

Ont., Toronto—See "Industrial Works."

BIDS DESIRED

Ga., Statesboro—See "Bridges."

Ga., Swainsboro—See "Bridges."

Minn., Red Wing—See "Streets and Roads."

Ark., Little Rock—See "Bridges."

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★**Ga., Metter**—See "Bridges."

★**Ga., Swainsboro**—See "Bridges."

★**Ga., Valdosta**—See "Bridges."

Minn., Elk River—See "Bridges."

★**Ariz., Cottonwood**—See "Bridges."

★**Man., Carman**—See "Bridges."

Streets and Roads

PROPOSED WORK

Mass., Malden (Boston P. O.)—City having plans prepared building 6-10 ft. granolithic walks in various sections. About $10,000. H. W. Esty, city engr.

Pa., Dormont (Pittsburgh P. O.)—Boro. Council soon lets contract grading, paving and curbing Pinehurst Ave. from Peermont to Biltmore Aves., Latonia Ave. from Peermont Ave. to Scott Rd., grading Ordnance Ave. from Bway to Ocean Aves. Work involves 2980 sq.yd. vitr. brick, 2530 lin.ft. concrete curbing and guttering and 2980 cu.yd. earth excav. Douglass & McKnight, Columbia Bank Bldg., Pittsburgh, engrs.

Pa., Pittsburgh—City soon lets contract grading, paving and curbing Montooth St. from Climax St. to Taff Ave., Beltzhoover Ave. from end of present pavement to Charles St., Dilworth St. from Gray to Cowan Sts., widening Main St. at its intersection with Liberty St.; paving and curbing Marshall Ave. from Linwood Ave. to Brighton Rd. and regrading, repairing and recurbing Sylvania Ave. from Taff to Gearing Aves. and Taff Ave. from Montooth St. to point 350 ft. north. N. S. Sprague, city engr.

Pa., Washington—Washington Co. soon receives bids building roads. Bonds for $1,000,000 voted for project. Noted May 15.

Streets and Roads (Continued)

W. Va., Charleston—Kanawha Co., Elk Dist. plans election soon to vote on $400,000 bonds to improve roads. F. C. Burdette, engr.

W. Va., Clarksburg—City election July 15 to vote on $900,000 bond issue for street and sewer improvements and other work.

W. Va., Clarksburg—Comrs. Harrison Co. having plans prepared and soon receives bids building 2.5 mi. Fairmont-Clarksburg Pike. Work involves 23,315 sq.yd. brick pavement on concrete foundation. About $88,000. J. R. Wilson, Clarksburg, engr.

W. Va., Elkins—Randolph Co. plans election soon to vote on $150,000 bonds to improve roads in Beverly Dist., and $90,000 bonds to improve roads in Montrose Dist. F. A. Parsons, Elkins, co. engr.

W. Va., Fayetteville—Fayette Co. soon receives bids building 2.63 mi. Fayette Rd., bituminous macadam. About $35,000. J. K. McGrath, co. engr.

W. Va., Fayetteville—Fayette Co. voted $194,000 bonds to improve roads in Quinnimont Dist. J. K. McGrath, co. engr. Noted May 29.

North Carolina—State Highway Comn., Raleigh, plans to gravel 14 mi. road from Yanceyville to state line, Caswell Co., cost $40,000; 20 mi., 9 ft. wide, in Avery and Watauga Counties, $100,000; 5½ mi. from Buffaloe Mills to Gaston Co. line, $13,750, 8 mi. from No. 6 Twp. line to Burke Co. line, $25,000, both in Cleveland Co.; 9 mi. Wicksville-Salisbury Rd., 3 mi. Yadkinville Rd. and one 6 mi. stretch, all in Davie Co.; hard surface 15½ mi. Asheville-Marion Rd., 16 ft. wide, $240,000, and 4½ mi. other roads, 16 ft. wide, $50,000, both in Buncombe Co.; 2½ mi. from Kings Mt. to Gaston Co. line, Cleveland Co., $68,000; 6 mi. township roads, 16 ft. wide, Anson Co., $40,000; 2½ mi. Old Causeway, 18 ft. wide, Brunswick Co.; 1½ mi. Greensboro-Winston Rd., Guilford Co.; 12 mi. Haysville-Briston Rd., Clay Co.; 7 mi. Atlanta-Asheville Highway, Cherokee Co.; 50 mi. Boardman-Wilmington Rd., Columbus Co.; also improve 6 mi. Winston-High Point Rd., Davidson Co., and 7 mi. Concord-Abbeville Rd., Cabarrus Co. W. S. Fallis, engr.

N. C., Albemarle—Comrs. Stanley Co. plan to gravel 10 mi. Sanford-Albemarle Rd., 16-18 ft. wide. About $30,000. W. S. Fallis, c/o State Highway Dept., Raleigh, engr., $30,000.

N. C., Bayboro—Comrs. Pamlico Co. plan to top soil 22 mi. Oriental Bayboro Rd., 16-18 ft. wide. About $77,000. W. S. Fallis, c/o State Highway Dept., Raleigh, engr.

N. C., Bryson City—Comrs. Swain Co. plan to gravel 4 mi. various roads, 16-18 ft. wide. About $10,000. W. S Fallis, c/o State Highway Dept., Raleigh, engr.

N. C., Carthage—Comrs. Moore Co. plan to gravel 28 mi. Sanford-Albemarle Rd., 16-18 ft. wide. About $84,000. W. S. Fallis, c/o State Highway Dept., Raleigh, engr.

N. C., Charlotte—Comrs. Mecklenburg Co. plan to hard surface 14 mi. Charlotte-Monroe Rd., 18-20 ft. wide. W. S. Fallis, c/o State Highway Dept., Raleigh, engr.

N. C., Clinton—Comrs. Simpson Co. plan to gravel 24 mi. Clinton-Dunn Rd., 16-18 ft. wide. About $48,000. S. W. Fallis, Raleigh, engr.

N. C., Danbury—Comrs. Surrey Co. plan to gravel 22 mi. Danbury-Dobson Rd., 16-18 ft. wide, cost $55,000; 20 mi. Mt. Airy-Winston Rd., 16-18 ft. wide, $50,000. W. S. Fallis, c/o State Higway Dept., Raleigh, engr.

N. C., Elizabeth—Comrs. Pasquotank Co. soon let contract hard surfacing 25 mi. roads, 9-18 ft. wide, vitr. asphalt or concrete. T. L. Higgs, 336 Hinton Bldg., engr.

N. C., Franklin—Comrs. Macon Co. plan to gravel 11 mi. Bryson City-Franklin Rd. W. S. Fallis, c/o State Highway Dept., Raleigh, engr.

N. C., Goldsboro—Comrs. Wayne Co. plan to gravel 15.6 mi. Goldsboro-Duplin Rd., 16-18 ft. wide. About $35,000. W. S. Fallis, c/o State Highway Dept., Raleigh, engr.

N. C., Greensboro—Comrs. Guilford Co. plan to hard surface 1.5 mi. Asheboro Rd., 20 ft. wide; 1.5 mi. Greensboro-Charlotte Rd., and 1 mi. Stokesdale Rd., and 2 mi. Stokesdale-Rockingham Rd. W. S. Fallis, c/o State Highway Dept., Raleigh, engr.

N. C., Henderson—City rejected bids received June 17, for 55,000 sq.yd. of asphalt, bitulithic, concrete, brick, or other pavement, 7000 lin.ft. of granite or concrete curb, 7000 lin.ft. of concrete gutter, 9000 sq.yd. of sidewalk, 18,000 cu.yd. grading, etc. Work indefinitely postponed. G. C. White, Durham, engr. Noted May 29.

N. C., Kinston—Comrs. Lenoir Co. plan to hard surface 19 mi. Goldsboro-New Bern Rd. W. Fallis, c/o State Highway Dept., Raleigh, eng.

N. C., Monroe—Comrs. Union Co. plan to gravel or top soil 6 mi. Monroe-Charlotte Rd., 16 ft. wide. About $10,230. W. S. Fallis, c/o State Highway Dept., Raleigh, engr.

N. C., Nashville—City plans to pave 1¼ mi. Washington Ave. and Depot St., 30 ft. wide. About $50,000.

N. C., Raleigh—Comrs. Wake Co. plan to hard surface 6.8 mi. Raleigh-Carey Rd., 18-20 ft. wide. About $200,000. W. S. Fallis, c/o State Highway Dept., Raleigh, engr.

N. C., Sanford—Comrs. Lee Co. plan to gravel 10 mi. Sanford-Albemarle Rd., 18 ft. wide. About $30,000. W. S. Fallis, c/o State Highway Dept., Raleigh, engr.

N. C., Smithfield—Comrs. Johnston Co. plan to gravel 8 mi. Fayetteville Rd., 16 or 18 ft. wide. About $16,000. W. S. Fallis, c/o State Highway Dept., Raleigh, engr.

N. C., Tarboro—City soon lets contract paving 30,000 sq.yd. Main St. W. M. Piatt, Durham, engr.

N. C., Troy—Comrs. Montgomery Co. plan to gravel 25 mi. Sanford-Albemarle Rd., 16-18 ft. wide. About $75,000. W. S. Fallis, c/o State Highway Dept., Raleigh, engr.

N. C., Washington—Comrs. Beaufort Co. receive bids about Aug. 1 paving various roads. About $1,000,000. G. C. White, Durham, engr.

N. C., Waynesville—Comrs. Haywood Co. soon let contract improving 8 mi. Waynesville-Conton Highway, 30 ft. wide, sand clay or gravel surface. W. S. Fallis, c/o State Highway Dept., Raleigh, engr.

N. C., Waynesville—Comrs. Haywood Co. plan to gravel 6.7 mi. Waynesville-Asheville Rd. W. S. Fallis, c/o State Highway Dept., Raleigh, engr.

N. C. Webster—Comrs. Jackson Co. plan to gravel 12 mi. Sylva Rd. to Haywood Co. line, 20 ft. wide. About $120,000. W. S. Fallis, c/o State Highway Dept., Raleigh, engr.

S. C., Allendale—Comrs. Allendale Co. plan to relocate grade, drain and surface 15 mi. Augusta-Beaufort Highway from here to Millette 30 ft. wide. About $45,000. J. R. Pennell, c/o State Highway Dept., Columbus, engr.

S. C., Batesburg—City election July 11, to vote on $30,000 bonds to pave 1.5 mi. streets in business section, 40-50 ft wide. Engineer not selected.

S. C., Bennettsville—Comrs. Marlboro Co. plan to relocate, grade, drain and surface 20 mi. road from Cheraw Bridge on Chesterfield Co. line to Dillon Co. line, via Bennettsville and Clio, 30 ft. wide. About $56,000. J. R. Pennell, c/o State Highway Dept., Columbia, engr.

S. C., Darlington—Comrs. Darlington Co. plan to relocate, grade drain and surface with local materials, 10 mi. roads from Darlington to Chesterfield, via Hartsville, 30 ft. wide. About $40,000. J. R. Penell, c/o State Highway Dept., Columbia, engr.

S. C., Greenwood—Greenwood Co. soon lets contract relocating, grading, draining and topsoiling 7.3 mi. road, from here to Hodges, 30 ft. wide, involving 55 cu.yd. concrete, 22,857 cu.yd. earth excav. and 20,272 cu.yd. topsoil. B. R. Cowherd, Jr., Greenwood, engr. Noted June 26.

S. C., Orangeburg—City plans election to vote on $450,000 bonds to pave 9 mi. various streets, 30-50 ft. wide, lay 20.8 mi. cement sidewalks, 25 mi. granite curbing, etc. J. H. Hawes, city engr.

Ga., Folkston—Charlton Co. receives bids in about 60 days building 20 mi. Dixie Highway. Estimated cost $300,000. J. B. McCrary Co., 3rd Natl. Bank Bldg., Atlanta, engrs.

Fla., Ft. Myers—City election in August to vote on $50,000 bonds to pave various streets.

Fla., Lake City—Comrs. Columbia Co. plan to build road. About $50,000. Federal Government will appropriate toward cost. J. A. Leslie, chn.

Fla., Marianna—City having surveys made and plans prepared paving various streets and improving waterworks. About $75,000. J. B. McCrary Co., 3rd Natl. Bank Bldg., Atlanta, Ga., engrs.

Ala., Mobile—Comrs. Mobile Co. voted to issue $100,000 bonds to improve roads. Federal Government may appropriate like amount.

Miss., Holly Springs—Bd. Superv. Marshall Co. soon lets contract building 8 mi. sand and clay road, in Cayce Separate Rd. Dist. W. D. Heddleston, engr.

La., Morgan City—City Council plans to issue $62,000 bonds to build roads in Dist. No. 1, and $63,000 bonds to build and repair streets within corporate limits of city. T. T. Thorgeson, city engr.

Ky., Newport—Campbell Co. soon receives bids improving 4 mi. River Rd. from Ross to Ten Mile, waterbound macadam. A. Thornton, engr.

Ohio—State Highway Comn., Columbus, plans to grade, build bridges and culverts and pave .76 mi., Sect. "O" Columbus-Sandusky Rd., 24 ft. wide, brick; .72 mi., Sect. "M" Columbus-Sandusky Rd., 24 ft. wide, brick, Franklin Co.

O., Cincinnati—City election in August to vote on $2,267,100 bonds to improve streets.

O., Dayton—Dayton View Land Co. acquires 250 acre tract north and east of Salem Ave. and plans to build streets, sidewalks and sewers.

Mich., Coleman—R. A. Turrel, city clk., soon lets contract grading, draining and surfacing with gravel Railway St., from 4th St., S. E., to city limits and from 7th St., N. W., to city limits; 6th St. from Railway to Monroe Sts.; Gladwin Rd. from Monroe St. to north city limits; 4th St. from Washington to Adams Sts.; Adams St. from 4th to 2nd Sts.; 2nd St. from Adams St. to Section Line Rd.; Section Line Rd. from 2nd St. to east city limits. R. W. Roberts, Federal and Franklin Sts., Saginaw, engr.

Mich., Detroit—Dept. Pub. Wks. soon lets contract paving with sheet asphalt on 6 in. concrete foundation, Berea, Medina or Amherst curbstone, Kulick Ave. from Junction Ave. to Pere Marquette R.R.; Konkel Ave. from Junction to Wessen Aves., Kopernik Ave. from Lockwood Ave. to Pere Marquette R.R., all 26 ft. wide; with asphaltic concrete on 6 in concrete foundation, Canfield Ave. from Crane to Rohns Aves., Fairview Ave. from Charlevoix to Mack Aves., Gladstone Ave. from Wilson to 12th Sts., Hurlbut Ave. from Warren to Shoemaker Aves., all 26 ft. wide, Griffin Ave. from Elmwood Ave. to easterly terminus of 48th St., 24 ft. wide, Harper Ave., Sect. 2, from Montclair to Connors Aves., 30 ft. wide; with brick on 6 in. concrete foundation Platt St. from west end of street to west line Moran St., 26 ft. wide, involving 23,091 cu.yd. excav., 25,713 lin.ft. curbstone, 40,362 sq.yd. paving, etc. C. W. Hubbell, city engr.

Mich., Detroit—Dept. Pub. Wks. soon receives bids paving with asphaltic concrete on 6 in. concrete foundation, Berea, Medina or Amherst curbstone, Green Ave. from Fort St. to Chatfield Ave., $32,190; Northfield Ave. from Warren to Tireman Aves., $40,660; Granger Ave. from Baldwin to Van Dyke Aves., $7830; Louis Ave. from Holcomb to Belvidere Aves., $4130; Springle Ave. from Kercheval to Charlevoix Aves., $22,870; Pingree Ave. from Linwood Ave. to Dexter Blvd., $35,810, all 26 ft. wide. C. W. Hubbell, city engr.

Ill., Chicago—Bd. Local Impvts. rejected bids received June 4, paving (a) alley between Harrison and Flournoy Sts., Spaulding and Homan Aves.; (b) alley between Van Buren and Congress Sts., Washtenaw and California Aves.; (c) alley between Blackhawk and Division Sts., Holt and Dickson Aves.; (d) alley between Wabausia and North Aves. and Kedzie and Sawyer Aves.; (e) alley between Montrose and Cullom Aves., Ashland Ave. and Paulina St., also West 18th St. from Central Park Ave. to 1st alley west and alley between West 16th St., Ogden Ave., Central Park and Millard Aves. Noted June 19.

Ill., East St. Louis—Chamber of Commerce plans to build 5 mi. concrete road from here to Madison, 100 ft. wide. J. N. Fining, secy.

Ill., Rock Island—City Council plans to pave 37th Ave. from 12th to 18th Aves., 12th Ave. from 37th to 38th Sts., involving 5820 sq.yd. asphaltic concrete and 2460 cu.yd. excav. About $23,530. W. Treichler, city engr.

Wis., Sheboygan—City soon lets contract grading and paving 2.9 mi. St. Clair Ave. and North 11th St., 20 ft wide, involving 10,000 sq.yd. 2 course concrete and 4500 lin. ft. concrete curb and gutter. About $30,000. C. U. Boley, city engr. Noted June 19.

Streets and Roads (Continued)

Minn., Duluth—J. A. Farrell, city comr., soon lets contract paving 1600 ft. House St. from Commonwealth to 105th Aves., W., 18 ft. wide, 1 course concrete. About $14,958. Work involves 2688 sq.yd. concrete, 2250 cu.yd. excav. and 2738 ft. 3 in. drain tile, etc. E. K. Coe, Engr.'s Office, City Hall, engr.

Minn., Duluth—J. A. Farrell, city comr., soon lets contract paving 8300 ft. East 3rd St., from Lake to 18th Aves., 24-26 ft. wide, asphalt. About $139,638. Work involves 69,166 sq.yd. asphalt, 16,600 lin.ft. concrete curbing, etc.

Kan., Eureka—Greenwood Co. soon receives bids building 14½ mi. Fort Scott-Wichita Rd. from Eureka to Butler Co. line, 18 ft. wide, gravel and concrete. F. E. Ross, Eureka, engr.

Kan., Lyons—Rice. Co. soon receives bids building 10 mi. brick road west of here, near Sterling, 18 ft. wide. S. Ainsworth, Lyons, engr.

Kan., Marysville—Marshall Co. plans to build 33 mi. White Highway from Nemaha Co. line to Washington Co. line through Vermillion and Blue Rapids, 18 ft. wide, concrete. P. F. Gallup, Marysville, engr.

Kan., Paola—Miami Co. plans to build 30 mi. Jefferson Highway from Linn Co. line to Johnson Co., through Osawatomie, 18 ft. wide, bituminous macadam. H. Stockwell, Paola, engr.

Kan., Salina—Saline Co. having plans prepared building 7½ mi. highway, 18 ft wide, concrete, brick or bituminous macadam. Southwestern Eng. Co., Hutchinson, engrs.

Kan., Topeka—Shawnee Co. having plans prepared building 9 mi. Central Ave. Rd. from Topeka to Jackson Co. line, 18 ft. wide, concrete, brick, bituminous macadam or gravel. J. E. Williams, 1311 Clay St., engr.

N. D., Grand Forks—City plans to pave and build sewers in Chestnut, Walnut and Cottonwood Sts., Paving Dist. No. 15; also 5th, 6th, 7th, 8th, 9th and 10th Aves., Paving Dist. No. 20. About $125,000. C. S. Giles, Grand Forks, engr.

N. D., Grand Forks—City rejected bids received June 20, paving, curbing, grading and draining 47,358 sq.yd. in Paving Dists. No. 10 and 16, 20-30 ft. wide, Portland cement concrete. Noted June 26.

Mont., Anaconda—Deer Lodge Co. election Sept. 2 to vote on $150,000 bonds to build roads. E. Cralle, Anaconda, engr.

Mont., Lewistown—Fergus Co. election Sept. 2, to vote on $700,000 bonds to build roads. H. C. Tilzey, Lewistown, engr.

Mont., Townsend—Broadwater Co. election Sept. 2 to vote on $100,000 bonds to build roads. L. K. Pool, Townsend, engr.

Mo., Benton—Scott Co. soon receives bids building 27.5 mi. road from Sikeston to south line of Cape Girardeau Co., 16 ft. wide, local bank gravel; 7 mi. road from north line of New Madrid Co. to west line of Mississippi Co., 16 ft. wide, local bank gravel. M. S. Murray, Sikeston, engr.

Mo., Benton—Scott Co. soon receives bids building 7 mi. Poplar Bluff-Cairo Rd., 16 ft. wide, gravel. About $59,000. M. S. Murray, Benton, engr.

Mo., St. Louis—Bd. Pub. Serv. having plans prepared widening 2 mi. Palm St. and Natural Rd., cost, $1,000,000; widening 2 mi. Gravois St. from Grand to Geyer Aves., and Geyer Ave. to 12th Sts., from 60-100 ft., $1,500,000. H. Bartholomew, city engr.

Mo., Shelby—Shelbina Co. election July 12, to vote on $1,000,000 bonds to build roads. B. Hewitt, Shelbina, engr.

Tex., Angleton—Comrs. Brazoria Co. plan to clear, grub and grade (about 6400 ft.), shell surface, and build pile trestles, timber and concrete slab bridges, on 9.47 mi. highway from Jones Creek through Freeport to Quintana, 16 ft. wide. About $140,000. W. A. Randle, Angleton, engr.

Tex., Comanche—Comrs. Comanche Co. plan to rock and gravel surface, also pave with concrete, and build drainage structures, on 28.31 mi. Highway No. 10 from Brown Co. line to Erath Co. line, 16 ft. wide. About $250,000. W. E. Dickerson, Comanche, engr.

Tex., Corpus Christi—Comrs. Court of Mueces Co. plans election July 26, to vote on $2,000,000 bonds to build roads.

Tex., Farmersville—City voted $10,000 bonds to pave various streets.

Tex., Madisonville—Comrs. Madison Co. plan to clear, grub, grade, gravel and surface with stone, also build concrete drainage structures on 20.5 mi. State Highway No. 32 from Leon Co. line, southeast to Walker Co. line, 16 ft. wide. About $177,000. P. A. McCarthy, Lufkin, engr.

Tex., Marble Falls—Burnet Co. election July 12 to vote on $55,000 bonds to improve roads in Dist. No. 2.

Tex., Quitman—Comrs. Wood Co. plan to improve, grade, haul and place iron ore gravel surface and build drainage structures, on 11.55 mi. Highway No. 37, known as Jim Hogg Highway, to here from Mineola, 16 ft. wide. About $83,000. Hess & Skinner, Southwestern Life Bldg., Dallas, engrs.

Tex., Quitman—Comrs. Wood Co. plan to grade, haul and place iron ore gravel surface and build drainage structures on 21.68 mi. Highway No. 15, (Dixie Highway) east from Mineola, 16 ft. wide. About $127,000. Hess & Skinner, Southwestern Life Bldg., Dallas, engrs.

Okla., Sapulpa—Creek Co. soon receives bids paving 28 blocks various streets and laying 25 blocks sidewalks.

Idaho, Cottonwood—Comrs. Idaho Co. plan to improve and complete North and South Highway and other county roads. Bonds for $90,000 sold for work.

Idaho, Harrison—Latah Co. Lakeside Dist., voted $75,000 bonds to grade and gravel Lakeside Highway. D. P. Olson, c/o State Highway Dept., Boise, engr.

Idaho, Moscow—Troy Dist. voted $125,000 bonds, Bovill Dist., $175,000 and Deary Dist., $120,000 to improve roads in Latah Co. D. Olson, c/o State Highway Dept., Boise, engr.

Idaho, Sandpoint—City plans to pave various streets, involving 285,000 sq.ft. concrete. About $60,000.

Idaho, Spirit Lake—H. A. Sewell, engr., Panhandle Highway Dist., Bank of Spirit Lake Bldg., soon let contract grading, gravel surfacing, clearing, curbing and building culverts and drainage structure on Seasons-Spirit Lake Rd.

Utah, American Fork—City having surveys made paving 3000 ft. Main St. from 2nd N. to 3rd S. Sts., 32 ft. wide. Huddlestone & Fiero, McIntyre Bldg., Salt Lake City, engrs.

Utah, Brigham—City plans to pave 1.5 mi. Main St., 18-40 ft. wide. About $65,300. C. O. Raskelly, city engr.

Wash., Prescott—City plans to grade and pave 12 blocks A St., 20 ft. wide, 12 ft. macadam.

Wash., Seattle—City rejected bids received June 20, grading and paving Empire Way, et al., involving 44,000 sq.yd. 6 in. concrete, 20,100 lin.ft. concrete curbing, 17,600 cu.yd. earth excav. and 4350 lin. ft. 8 in. sewer. About $329,962. Work will be readvertised. A. H. Dimock, city engr.

Wash., Vancouver—City plans to improve 22nd St. from Main to Reserve Sts., cost $30,000; 29th St. from Main St. to Kauffman Ave., also hard surface, build concrete curbs and sidewalks on H St. from 22nd to 26th Sts. W. S. Schwarz, city engr.

Wash., Walla Walla—City plans to pave, curb and build sidewalks on Clinton, Madison, 6th and 4th Sts., concrete. Cost to exceed $10,000. H. H. Crampton, supt. streets.

Ore., Bend—Deschutes Co. having plans and estimates made by G. L. Stebbins, engr., c/o State Highway Comn., Portland, building Bend-Sisters-Trail Crossing Rd. About $100,000. County will appropriate $60,000 and state balance of cost.

Ore., Eugene—City plans to grade and gravel surface Lawrence St from 19th Ave. to 17th St. About $10,000. G. Stearns, recdr.

Ore., Portland—City soon lets contract building artificial stone or asphaltic concrete sidewalks on concrete foundation not less than 3 in. deep, on East 71st St. from Thorburn Ave. to East Glisan St., East 70th St. from East Davis to East Glisan Sts., East Flanders St. from Jonesmore to East 71st Sts., East 69th St. from Thorburn Ave. to East Davis St., East Everett St. from East 70th to East 72nd Sts., East 70th St. from Thorburn Ave. to East Davis St., East Davis St. from Jonesmore to East 71st St., paving with concrete No. 1 or 2, Cable St. from Terrace Rd. to Mill St., with crushed rock or gravel macadam, Vernon Ave. from Alberta St. to Killingsworth Ave., with asphaltic concrete Nos. 1 or 2 on crushed rock base, Minnesota Ave. from Emerson St. to Killingsworth Ave. and East 62nd St. from Sandy Blvd. to Fremont St. O. Laurgaard, city engr.

Cal., San Diego—A. H. Wright, city clk., soon lets contract grading, paving and improving Garnet St., Grand and Balboa Aves., involving 4569 cu.yd. excav., 4771 cu. yd. embankment, 238,064 sq.ft. 1½ bitulithic wearing surface on 4 in. concrete base, building 62 lin.ft. cement curbing, 36 lin.ft. 24 in. double strength cement pipe culverts. F. A. Rhodes, city engr.

N. B., Shediac—Town soon lets contract building 2 mi. Main St., bituminous macadam, 40 ft. wide. About $12,000. J. McQueen, Shediac, clk. Noted June 5.

Que., Laprairie—J. A. Sicotte, secy., soon lets contract paving with bituminous macadam 14 mi. roads of St. Francis Xavier Range and Lamont de la Tertue, St. Ignace Range. About $35,000. M. Henry, c/o Dept. Rds., Quebec, engr.

Que., Montreal—City voted $21,700 by-law to pave ¼ mi. Redpath St., 40 ft. wide. A. E. Doucet, city engr.

Ont., Bridgeburg — Town having plans prepared by C. Miller, engr., building asphaltic pavements on various streets. About $50,000.

Ont., Casselman—Town voted $14,000 by-law for building 2½ mi. bituminous macadam streets, 35-40 ft. wide. J. Martin, engr.

Ont., Pembroke—Town had plans prepared by W. A. Moore, engr., for 10,000 sq. yd. asphaltic pavement on concrete base, 20 ft. wide. About $38,000.

BIDS DESIRED

Vermont—Until July 15, by State Highway Comn., Montpelier, building 9.6 mi. gravel roads, Irasburg, Williston, Sherburne and Marlboro Twps., 2.4 bituminous macadam road, Fairlee Twp. S. B. Bates, state highway engr.; advertised in this issue.

Mass., Boston—Until July 17, by Park Comn., 33 Beacon St., grading and building drives and walks in park and playground. About $12,000. Former bids rejected. C. E. Putnam, 33 Beacon St., engr. Noted May 22.

N. Y., Geneva—Until July 8 (change of date), by Bd. Pub. Wks., paving High, West and Brook Sts., involving 5400 cu.yd. excav., 8750 lin. ft. curbing and guttering, 175 lin. ft. header, 8750 lin. ft. 3 in. drain tile, 3000 lin. ft. vitr. pipe, 10,000 sq.yd. brick or rein.-con. H. K. Seyboldt, supt.; advertised in this issue. Noted June 12.

N. J., Hoboken—Until July 8, by city, improving Jackson, Jefferson, Grand and Clinton Sts., asphalt. J. O. Whittemore, city engr. Noted June 12.

N. J., Jersey City—Until July 8, by city, repaving Grand St. from Mile Creek to Communipaw Ave., Communipaw Ave. from Morris Canal Bridge to westerly block line of Grand St. and south side of Communipaw Ave. to westerly block line of Park St. granite block. About $50,000. Noted May 15.

N. J., Jersey City—Until July 15, by Comr. Essex Co., repairing roadway of Lincoln Highway between here and Newark. About $11,000. Noted June 26.

Pa., Ebensburg — Until July 14, by Supervs. Croyel Twp., c/o Controller Cambria Co., rebuilding 10¼ mi. highway in Croyle Twp. with 16-ft. roadway of vitr. brick paving block on combination base and curb. Work is to be let in 3 contracts as follows: Contr. No. 1, Jackson Rd., from Summerhill Boro. line to Cambria Twp. line, 3.35 mi. long; Contr. No. 2, Frankstown Rd., from Lambs Bridge to Summerhill Twp. line, 4 mi.; Contr. No. 3, Perkins Hill Rd. from Village of Lovett to Summerhill Twp. line, 2.9 mi. long. Bids will also be received separately for about 1,200,000 No. 1 repressed vitr. paving block, delivered f.o.b. cars Lambs Bridge and Summerhill, 1,560,000 No. 1 repressed vitr. paving blocks, delivered f.o.b. cars Lambs Bridge and Summerhill, and 1,050,000 No. 1 repressed f.o.b. cars, Lovett. O. P. Thomas, Leader Bldg., Johnstown, engr.; advertised in this issue.

Pa., Harrisburg—Until July 7, by W. H. Lynch, supt. streets and pub. impvts., Commonwealth Trust Bldg., paving sections of Elizabeth, Orange and Brensinger Alleys.

Streets and Roads—(Continued)

Hillside Rd., Walnut, Oxford, Oak, Sprague, Brensinger, Emerald, Bailey, Cameron, Turner, Home, David, Helen, Kunkel, York, Ethel and Chestnut Sts., involving 17,881 sq.yd. sheet asphalt, 1450 sq.yd. bituminous concrete paving and 10,617 lin.ft. curbing.

Pa., Holidaysburg—Until July 14, by Boro. Council, paving 5300 sq.yd. with either 2 course rein.-con. or vitr. brick on concrete base, 3200 lin.ft. concrete curb and 2500 cu.yd. excav. J. L. Henry, boro. engr. H. L. Stutz, chn. street comn.; advertised in this issue.

Pa., Pittsburgh—Until July 17, by Allegheny Co. Controller, building 2800 ft. Bower Hill Rd., Mt. Lebanon Twp., 24 ft. wide, vitr. brick and asphaltic concrete, and 15,350 ft. Gibsonia Rd., Richland and McCandless Twps., 16 ft. wide, rein.-con. R. V. Warren, Court House, engr.

Del., Georgetown—Until July 10, by Sussex Co. Highway Impvt. Comn., building 13.5 mi. highways, sand asphalt surface with slag foundation. C. M. Upham, c/o State Highway Dept., Dover, ch. engr.; advertised in this issue.

W. Va., Harrisville—Until July 7, by Ritchie Co. building 5 mi. road from Ellenboro to Pennsboro. About $112,000. R. O. Benshaw, Huntington, engr. Noted May 8.

W. Va., Huntington—Until July 15, by Cabell Co., grading, draining and paving with No. 1 brick block on concrete base, also building concrete curb and culverts on 1 mi. Wayne Rd. Olive & Maupin Eng. Co., City Hall, engrs.

S. C., Abbeville—Until July 7, by city, paving Main St., involving 50,000 sq.yd. paving, 8000 cu.yd. excav., 20,000 lin.ft. curb and gutter, 5000 lin.ft. gutter and 5000 sq.yd. sidewalk. About $175,000. W. A. Sanders, Abbeville, engr.

S. C., Bamberg—Until July 7, by City Council, paving Main St., involving 500 sq. yd. asphalt or concrete, 2451 lin. ft. curbing and 2178 lin.ft. concrete sidewalk. About $18,000. G. D. Ryan, Bamberg, engr.

Ga., Rome—July 22, by Comrs. Floyd Co. grading and top-soiling roads. About $30,000. J. B. McCrary, 3rd Natl. Bank Bldg., Atlanta, engr.

Florida—Until July 9 by State Highway Comn., Talkahassee, paving and draining, 18 mi. road, 18 ft. wide. About $400,000.

Miss., Indianola—Until July 10, by W. R. French, city clk., for 25,000 sq.yd. concrete or asphaltic concrete pavement. J. N. Harbert Eng. Co., engrs.

Louisiana—Until July 7, by State Highway Dept., Room 736 Maison Blanche Annex, New Orleans, paving 1.42 mi. Shreveport-Greenwood Highway in Caddo Parish and building 12.56 mi. Hammond-Mississippi Highway, Tangiphoa Parish. D. Buie, State Highway, engr.

Ohio—Until July 11, by State Highway Comn., Columbus, building roads in following counties:

Ashtabula Co., Sect. "C" Youngstown-Conneaut Rd., 5 mi., grading, constructing bridges and culverts and paving with monolithic brick or concrete. Estimated cost, $155,601.

Columbiana Co. Sect. "E" Cleveland-East Liverpool Rd., 3 mi., grading, constructing bridges and culverts and paving with concrete or waterbound macadam, $84,774.

Sect. "E-1" Lisbon-Canton Rd., 51 mi., grading, constructing bridges and culverts and paving with waterbound macadam, $17,930.

Sect. "J" Salem-Alliance Rd., 4.12 mi., grading, constructing bridges and culverts and paving with brick, $146,408.

Crawford Co., Sect. "M-1" Bucyrus Galion Rd., 1.74 mi., grading, constructing bridges and culverts and paving with bituminous macadam or semi-monolithic brick, $67,239.

Sect. "M-2" Bucyrus-Galion Rd., 2.75 mi., grading, constructing bridges and culverts and paving with bituminous macadam or semi-monolithic brick, $110,314.

Defiance Co., Sect. "E" Hicksville-Defiance Rd., 3.21 mi., grading, constructing bridges and culverts and paving with rein.-con., $84,489.

Sect. "F" Hicksville-Defiance Rd., 2.04 mi. grading, constructing bridges and culverts and paving with rein.-con., $53,300.

Delaware Co., Section "L" Columbus-Sandusky Rd., 6.18 mi., grading, constructing bridges and culverts and paving with bituminous macadam or rein.-con., $192,606.

Fayette Co., Sect. "A" Columbus-Washington C. H. Rd., 5.01 mi., grading, constructing bridges and culverts and paving with waterbound macadam or bituminous macadam, 113,534.

Sect. "B" Columbus-Washington C. H. Rd., 3.68 mi., grading, constructing bridges and culverts and paving with waterbound macadam or bituminous macadam, $84,754.

Sect. "C" Columbus-Washington C. H. Rd., 4.11 mi., grading, constructing bridges and culverts and paving with waterbound macadam or bituminous macadam, $95,664.

Geauga Co., Sect. "J" Cleveland-Meadville Rd., 2.30 mi., grading, constructing bridges and culverts and paving with concrete, $43,404.

Guernsey Co., Sect. "I-1" Cambridge-Caldwell Rd., 1.26 mi. grading, constructing bridges and culverts and paving with concrete, $39,128.

Sect. "I-2" Cambridge-Caldwell Rd., 3.13 mi., grading, constructing bridges and culverts and paving with concrete, $115,410.

Hancock Co., Sect. "D" Lima-Sandusky Rd., 6.05 mi., grading, constructing bridges and culverts and paving with concrete, bituminous macadam or brick, $238,654.

Hancock Co., Sect. "D, E, C-2, A-1 and C-1" of the county roads, bituminous surface treatment, $12,335.

Harrison Co., Sect. "N-1" Cadiz-Carrollton Rd., 2.40 mi., grading, constructing bridges and culverts and paving with macadam, $50,816.

Sect. "N-2" Cadiz-Carrollton Rdd., 48 mi., grading, constructing bridges and culverts and paving with waterbound macadam, $9,578.

Henry Co., Sect. "C" Bryan-Napoleon Rd., 2.4 mi., grading, constructing bridges and culverts and paving with waterbound macadam, $55,118.

Sect. "D-1" Bryan-Napoleon Rd., .90 mi., grading, constructing bridges and culverts and paving with waterbound macadam, $25,825.

Sect. "A" Ottawa-Napoleon Rd., 3.01 mi., grading, constructing bridges and culverts and paving with macadam, $66,482.

Knox Co., Sect. "P" Columbus-Wooster Rd., 5.08 mi., grading, constructing bridges and culverts and paving with concrete, $170,817.

Lake Co., Sect. "J" Chardon-Madison Rd., 2.33 mi., grading, constructing bridges and culverts and paving with rein.-con. $58,742.

Logan Co., Sect. "C" Bellefontaine-Lima Rd., 1.27 mi., grading, constructing bridges and culverts and paving with rein.-con., $39,271.

Sect. "E" Bellefontaine-Wapakoneta Rd., 3.22 mi., grading, constructing bridges and culverts and paving with rein.-con., $102,749.

Sect. "F" Bellefontaine-Wapakoneta Rd., 3.05 mi., grading, constructing bridges and culverts and paving with rein.-con., $118,629.

Sect. "G" Bellefontaine-Wapakoneta Rd., 3.69 mi., grading, constructing bridges and culverts and paving with rein.-con., $119,170.

Madison Co., Sect. "D-1" National Rd., 2.47 mi., grading, constructing bridges and culverts and paving with bituminous macadam, $49,837.

Sect. "A-2" Natl. Rd., 5.92 mi., grading, constructing bridges and culverts and paving with bituminous macadam, $157,944.

Mahoning Co., Sect. "P" Unity-Salem Rd., 2.15 mi., grading, constructing bridges and culverts and paving with brick, $93,510.

Montgomery Co., Sect. "N" Dayton-Indianapolis Rd., in 2 contracts, 2.67 mi., and .38 mi., grading, constructing bridges and culverts and paving with rein.-con., $98,535, and $25,550.

Morgan Co., Sect. "H" McConnellsville-New Lexington Rd., 3.26 mi., grading, constructing bridges and culverts and paving with waterbound macadam, $79,645.

Seneca Co., Sect. "Q" Lima-Sandusky Rd., 1.22 mi., grading and paving with bituminous macadam, $15,641.

Sect. "G and H" Upper Sandusky-Tiffin Rd., 4.28 mi., grading, constructing bridges and culverts and paving with bituminous concrete, brick, concrete or bituminous macadam, $163,812.

Trumbull Co., Sect. "N-1" Youngstown Conneaut Rd., 1.93 mi., grading, constructing bridges and culverts and paving with bituminous macadam, 33,903.

Sect. "A" Warren-Burton Rd., 1.16 mi., grading, constructing bridges and culverts and paving with bituminous macadam, $33,469.

Sect. "B" Warren-Burton Rd., 3.51 mi., grading, constructing bridges and culverts and paving with bituminous macadam, $102,017.

Sect. "C" Warren-Burton Rd., 2.21 mi., grading, constructing bridges and culverts and paving with bituminous macadam, $73,974.

Sect. "D" Warren-Burton Rd., 3 mi., grading, constructing bridges and culverts and paving with bituminous macadam, $115,536.

O., Cleveland—City receiving bids paving Scranton Rd. from Seymour to Clark Aves., involving 25,700 sq.ft. 5 in. brick paving on 6 in. concrete base and 2500 ft. 5 in. stone curbing; West 30th St. from Broadview Rd. to Colburn Ave., 18,000 sq.ft. 4 in. brick on 6 in. concrete base and 1550 ft. 5 in. stone curbing; West 59th St. from Storer to Gilbert Rds., 14,000 sq.ft. 4 in. brick on 6 in. concrete base and 1190 ft. 5 in. stone curbing; Fidelity Ave. from West 101st St. to West Blvd., 14,500 sq.ft. 4 in. brick on 6 in. concrete base, and 1100 ft. 5 in. stone curbing; Franklin Ave. from Franklin Circle to West 65th St., 5600 sq. ft. Medina block, 900 sq.ft. 6 in. concrete base, 22,100 sq.yd. asphalt and 1000 ft. 5 in. stone curbing; Loretta Ave. from West Blvd. to West 101st St., 28,750 sq.ft. 4 in. brick on 6 in. concrete foundation and 2240 ft. 5 in. stone curbing; West 19th St., from Dennison to Kenneth Aves., 15,400 sq.ft. 4 in. brick on 6 in. concrete base, and 1420 ft. 5 in. stone curbing; Scranton Rd. from Parafine to Howard Aves., 25,500 sq.ft. 5 in. brick on 6 in. concrete base, and 2000 ft. 5 in. stone curbing; Scranton Rd. from Howard Ave. to Auburn Rd., 25,500 sq.ft. 5 in. brick on 6 in. concrete base and 2000 ft. 5 in. stone curbing; Scranton Rd. from Auburn Rd. to Seymour Ave., 25,400 sq.ft. 5 in. brick on 6 in. concrete base and 2000 ft. 5 in. stone curbing. R. Hoffman, city engr.

O., Kent—Until July 25, by W. W. Reed, village clk., grading, draining, curbing and paving 8500 sq.ft. Lake St. R. C. Harvey, engr.; advertised in this issue.

Ind., Indianapolis—Until July 16, by Comrs. Marion Co., grading, paving and building culverts on 7990 ft. road, beginning at 30th St. southerly to Crawfordsville Rd., 50 ft. wide, bituminous concrete; 14,873 ft. Allisonville Rd., north from intersection of White River, 50 ft. wide, concrete; 3600 ft. Keystone Ave. beginning at intersection of Allisonville Rd. south to J. W. Roberts Rd., 50 ft. wide. About $71,850, $105,335 and $33,242, respectively. J. J. Griffith, Indianapolis, engr.

Ind., Indianapolis — Until July 18, by Comrs. Marion Co. grading and paving 8724 ft. road from Andy Smith Gravel Rd. to north line of Marion Co., 20 ft. wide, concrete, cost $84,826; also 26,218 ft. Pendleton Pike, 20 ft. wide, rein-con. J. J. Griffith, co. engr.

Mich., Bay City—Until July 7, by city, building 24,500 yd. pavement, asphalt, concrete and brick. W. H. Reid, compt.; advertised in this issue.

Mich., Port Huron—Until July 10, by D. D. Worcester, co. rd. mgr., County Bldg., grading, surfacing and building drainage structures on 2½ mi. Assessment Dist. Rd. No. 20, Lynn Twp., St. Clair Co. 16 ft. wide. D. Belyea, co. engr.

Wisconsin—Until July 9, by Wisconsin Highway Comn., Div. No. 5, La Crosse, improving Voriqua-Sparta Rd., Monroe Co., Federal Aid Project No. 67, involving 6 acres clearing and grubbing, 30,901 cu.yd. earth, 2040 cu.yd. earth (Creek channel), 2051 cu.yd. rock and 9 cu.yd. borrow excav., 285.79 cu.yd. Class "A" concrete, etc.; Prairie du Chien-Viroqua Rd., Crawford Co., Federal Aid Project No. 83, 1 acre clearing and grubbing, 29,250 cu.yd. earth, 2620 cu.yd. rock, and 311 cu.yd. borrow excav., 271 cu.yd. Class "A" concrete and 44 cu.yd. Class "B" concrete; La Crosse-Sparta Rd., La Crosse Co., Federal Aid Project No. 29, 29,183 sq.yd. bituminous macadam or 31,129 sq.yd. concrete surfacing. Noted Jan. 30.

Wisconsin—Until July 8, by Wisconsin Highway Comn., Madison, improving Dunbarton-Darlington Rd., Lafayette Co., Federal Aid Project No. 86, involving 1.48 acres clearing and grubbing, 17,604 cu.yd. earth, 2139 cu.yd. rock and 272 cu.yd. borrow excav., 234 cu.yd. Class "A" concrete, 2042 sq.yd. concrete surfacing, 35,949 lbs. structural steel, 138 sq.yd. Class "A" bridge paving, etc.; Wonewoc-La Valle Rd., Sauk Co., Federal Aid Project No. 97, 14,813 cu.yd. earth, 496 cu.yd. rock and 23 cu.yd. borrow excav., 239 cu.yd. Class "A" concrete, 30,892 sq.yd. gravel surfacing, etc.

Minn., Brainerd—Until July 19, by aud. Crow Wing Co., grading, graveling and surfacing 23 mi. Federal Aid Project No. 51, 24 ft. wide, surfacing 18 ft. wide. About $125,000. C. L. Mott, Brainerd, engr. Former bids rejected. Noted May 22.

Streets and Roads—(Continued)

Minn., Faribault—Until July 16, by Aud. Rice Co. building 13 mi. Federal Aid Project No. 64, State Rd. No. 5. Div. A, involving 27,457 cu.yd. excav., furnishing and installing culverts, etc.; Div. B, 49,649 cu.yd. excav., culverts, etc.; Div. C, 30,945 cu.yd. excav., 136,982 sq.yd. pavement, culverts, etc. About $200,000. W. P. Chapman, Faribault, engr.; advertised in this issue. Noted May 22.

Minn., Litchfield—Until July 20, by City Council, paving 22 blocks of streets. About $75,000. L. P. Wolff, 1001 Guardian Life Bldg., St. Paul, consult. engr. Noted June 12.

Minn., Mantorville—Until July 9, by G. L. Taylor, aud. Dodge Co., grading and graveling 12 mi. Federal Aid Project No. 66, State Rd. No. 1, Job No. 1802, 24 ft. wide. About $60,000. R. D. Jorgens, Hayfield, engr. Former bids rejected. Noted June 19.

Minn., Red Wing—Until July 17, by C. H. Meyer, aud. Goodhue Co., graveling 21.25 mi. Project No. 20, State Rds. Nos. 1 and 3, 24 ft. wide, also building State Bridge No. 3108, two 30 ft. rein.-con. spans, on State Rd. No. 2. About $121,000. J. A. Prior, Red Wing, engr.

Minn., Rochester—Until July 15, by Aud. Olmsted Co., building Job No. 1908, State Rd. No. 2, involving 78,702 cu.yd. earth and 6898 cu.yd. sand rock excav., etc. G. H. Smith, Rochester, engr.

N. D., Bottineau—Until July 8, by Bottineau Co., building 8.01 mi. earth road, Federal Aid Project No. 40, and 10.31 mi. gravel road, Federal Aid Project No. 43. W. H. Robinson, c/o State Highway Comn., Bismarck, engr.

Mo., Excelsior Springs—Until July 10, by W. L. Silvers, city clk., paving 400 ft. Spring St., 27 ft. wide, involving 1200 sq.yd. vertical fibre brick with asphalt filler on old base. C. A. Shockley, 740 Reserve Bank Bldg., Kansas City, engrs.

Mo., Pleasant Hill—Until July 7, by B. D. West, city clk., paving 5400 ft. 1st St., 15 ft. wide, involving 9000 sq.yd. waterbound macadam and 1900 cu.yd. embankment. About $11,000. Shockley Eng. Co., 740 Reserve Bank Bldg., Kansas City, engrs. Noted June 26.

Tex., Fairfield—Until July 8, by S. W. Robinson, judge Freestone Co., improving 10.04 mi. Highway No. 7 from Limestone Co. line to Teague, 24 ft. wide. Work involves 1.7 acres, clearing and grubbing, grading, hauling and placing gravel macadam road and building concrete drainage structures. About $150,000. Noted June 26.

Tex., Seymour—Until July 7, by Clk. Baylor Co., grading 12.35 mi. Highway No. 30 from Seymour to west county line, involving 27,255 cu.yd. earth excav., 3.27 mi. grading, 1.83 mi. reshaping, 135 cu.yd. class "A," and 70 cu.yd. Class "B" concrete, 11,084 lbs. reinforcing steel, etc. Noted May 22.

Utah—Until July 10, by State Highway Comn., Salt Lake City, paving 38 mi. Forest Rd. from Logan to Garden City, 18-24 ft. wide, involving 10,600 cu.yd. rock and 74,000 cu.yd. earth excav., 1500 cu.yd. rubble masonry and 5000 lin.ft. corrugated iron pipe. B. J. Finch, Hudson Bldg., Ogden, dist. engr.

Utah, Logan—Until July 10 by city clk. paving sidewalks in sidewalk Dist. No. 26, involving 82,000 sq.ft. 4 in. concrete, 3500 sq.ft. 6 in. concrete, 13,000 lin.ft. cement curbing, and 13,000 lin.ft. cement guttering. W. H. Chambers, city engr.

Washington—Until July 14, by State Highway Bd., Olympia, clearing, grading, draining and surfacing with gravel, 6.3 mi. Olympic Highway, west from Olympia, Thurston Co.; 4.2 mi. Olympic Highway from Brady to Elma, concrete, Grays Harbor Co.; 2.9 mi. Olympic Highway northwest from Hoquiam, Gray Harbor Co.; 6.7 mi. Pacific Highway from Salmon Creek north, concrete, Clarke Co.; 3.8 mi. Inland Empire Highway from Walla Walla to Buroker, concrete, Walla Walla Co.; 3 mi. Inland Empire Highway from Parker to Donald, concrete, Yakima Co.; 4.8 mi. Inland Empire Highway, west of Sunnyside, concrete, Yakima Co.; 4.3 mi. North Bank Highway from Vancouver to Fisher, concrete, Clarke Co.; 3.3 mi. North Bank Highway from Ellsworth to Camas, concrete, Clarke Co.; 6.7 mi. Pacific Highway from Castle Rock north, gravel, Cowlitz Co. J. Allen, state highway engr.

Wash., Seattle—Until July 14, by Comrs. King Co., building 4 mi. Bellevue-Newport Rd., 24 ft. wide, involving 5000 cu.yd. gravel surfacing, 30,000 cu.yd. earth excav., and building 2500 ft. creosoted pile trestle. About $68,000. S. J. Humes, co. engr.

Cal., San Diego—Until July 7, by A. H. Wright, city clk., improving portions of India, Pierce, California and Taylor Sts. and La Jolla San Diego Ave., 5194.31 lin.ft. in all, involving 2456 cu.yd. excav., 326,359 sq.ft. bitulithic wearing surface (Warrenite), 1½ in. thick on 5 in. concrete base, 7160 lin.ft. cement concrete curbing, etc. F. A. Rhodes, city engr. Noted Mar. 27.

N. S., Halifax—Until July 9, by F. W. Doane, city engr., paving streets. Work involves 23,000 sq.yd. granite block, 30,000 sq.yd. bituminous concrete, 33,000 lin.ft. concrete curbing and guttering, and 133,000 sq.yd. bituminous macadam.

Ont., Galt—Until July 13, (change of date), by W. H. Fairchild, city engr., paving, curbing and guttering West Main St. About $25,000. Noted June 12.

Ont., Wallaceburg—Town receiving bids paving and repairing various streets. About $40,000. L. G. McNeice, Margaret Ave., engr.

Ont., Windsor—Until July 12, by city, building concrete pavements and curbs on MacDougal Ave. and Huron St. About $22,864. M. A. Dickinson, acting engr.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

Massachusetts—State Highway Comn., Boston, received bids June 24, for 5600 ft. road, Falmouth Twp., involving 9300 sq.yd. macadam and 5600 lin. ft. excav., from Thomas & Murphy, Keene, N. H., cost $12,540; 11,200 ft., road, Great Barrington Twp., 3840 cu.yd. concrete, 5240 cu.yd. earth and 100 cu.yd. rock excav., from Lane Constr. Co., 37 Colony St., Meriden, Conn., $55,808, Menaguali & Blanchi, Great Barrington, $60,640, W. D. Smith Co., Springfield, $61,273; 2000 ft., road, Avon Twp., 9600 gal. bituminous macadam, 660 cu.yd. earth excav. and 1300 cu. yd. broken stone, from E. C. Sargent Co., Quincy, $7987, Powers Bros., Brockton, $8610, W. F. Loud Co., Quincy, $9093. Noted June 5 and 19.

★**Massachusetts**—State Highway Comn., Boston, let contract building 3100 ft. concrete road, West Springfield Twp., to Middlesex Constr. Co., Medford, $20,499. Work involves 1420 cu.yd. concrete, 1250 cu.yd. tar macadam and 2000 cu.yd. excav. Noted June 19.

★**Mass., Boston**—Comr. Pub Wks. let contract, to B. E. Grant Co., 27 School St., paving Tremont St., involving 21,740 sq.yd. granite block, 6620 lin.ft. stone curbing, 7000 sq.ft. concrete sidewalk, cost $77,749; to J. M. McCourt Co., 46 Wait St., Brookline, Summer St., 7570 sq.yd. granite block, 1100 lin.ft stone curbing and 700 sq.yd. concrete sidewalk, $28,195.

★**Mass., Boston**—Comr. Pub. Wks. let contract paving Cambridge St., to Central Constr. Co., 27 School St., $14,329. Work involves 7200 sq.yd. granite block, 592 lin. ft. stone curbing, and 2000 lin.ft. brick sidewalks.

★**Connecticut**—State Highway Comn., Capitol, Hartford, let contract improving 51,691 ft. 3 in. bituminous macadam over 7 in. native stone base on Norwich Westerly Rd., Preston, Ledyard, North Stonington and Stonington Twps., to L. Suzio Constr. Co., State and Brooks Sts., Meriden, $355,000; 6600 lin.ft. 3 in. bituminous macadam over 4 in. stone base, on Abington Rd., Pomfret Twp., to J. H. Grozier Co., 721 Main St., Hartford, $40,000; 3000 lin.ft. 7 in. native stone macadam on North Granby Rd., Granby Twp., to H. L. Immich Co., State St., Meriden, $20,000. Noted June 19.

★**Conn., Milford**—City let contract building 10,000 ft. Beach Rd., from Devon R. R. Sta. to Walnut Beach, to Connecticut & Rhode Island Co., Inc., Hall and Lewis Bldg., Meriden. About $50,000. Noted Feb. 20.

★**N. Y., Brooklyn**—E. Riegelmann, boro. pres., let contract regulating and laying cement sidewalks on both sides of Bay Ridge Pl., to Grimm Constr. Co., $941; Bay 38th St., to J. J. Guinan Co., 2314 Gravesend Ave., $2001; 64th and 76th Sts., to Brooklyn Alcatraz Asphalt Co., 407 Hamburg Ave., $10,443 and $911,158 respectively. Noted June 19

N. Y., Geneva—Bd. Pub Wks. received bid paving various streets. [illegible] Constr. Co., Warsaw. About $7[illegible].

N. Y., Long Island City—M. J. Connolly pres. Queens Boro., received bids regulating and repaving (a) 13th St. from 43d to 9th Aves., College Point, 3rd Ward; (b) Main St. from Bway. to Jamaica Ave., 3rd Ward; (c) Jackson Ave. from Bridge Plaza to Thompson Ave., 1st Ward; (d) Jackson Ave. from Bridge Plaza to 2nd Ave., 1st Ward; (e) Jackson Ave. from 2nd Ave. to Old Newtown Rd., 1st Ward, from Peace Bros., 20 Main St., Flushing (a) $37,652, (b) $21,681, (c) $21,001, (d) $18,115, (e) $65,137; F. J. Mason, (a) $38,694, (b) $22,533, (c) $20,700, (d) $17,860, (e) $60,040. Noted June 19.

★**N. Y., New York**—H. Bruckner, pres. Bronx Boro., let contract resetting curbs and repaving with sheet asphalt on concrete foundation, roadway of Cypress Ave. from East 135th to East 136th Sts., to Union Paving Co., Bway. and 112th St., $5674; repaving with granite blocks on concrete foundation, roadway of Cypress Ave. from East 132nd to East 138th Sts., to S. Davis, 225 West 110th St., $55,779. Noted June 19.

N. Y., New York—F. L. Dowling, pres. Manhattan Boro., received bids June 27 regulating and repaving with sheet asphalt on concrete base, roadway of (a) Lexington Ave., (b) Lenox Ave., (c) 110th St., (d) 119th St., (e) 121st St., (f) West Bway., (g) Moore St., (h) repaving asphalt pavement in roalroad area, from Sicilian Asphalt Paving Co., 41 Park Row, (a) $55,126, (b) $188,462, (c) $27,973, (d) $27,183, (e) $21,783, (h) $17,400; Uvalde Asphalt Paving Co., 1 Bway., (a) $58,87[illegible], (b) $193,421, (c) $27,099, (d) $26,494, (e) $20,475, (h) $15,720; Asphalt Const. Co., 2197 Madison Ave., (a) $61,242, (b) $197,634, (c) $28,201, (d) $27,882, (e) $22,322, (f) $81,674, (g) $8128, (h) $17,7[illegible]; Cleveland Trinidad Paving Co., Flushing, L. I., (b) $182,732, (d) $26,742, (e) $21,[illegible], Davney Asphalt Paving Co., foot of Quincy Ave., (c) $27,643, (d) $26,102, (e) $21,62[illegible], M. J. O'Hara, (f) $81,236, (g) $8392; P. J. Kerns, (f) $82,045, (g) $4872; M. J. Sachs, (g) $8277; W. J. Fitzgerald, 547 West 47th St., (f) $82,675, (g) $8374. Noted June 19.

★**N. Y., Rochester**—City let contract paving Mellville St., to F. W. Brotch Co. E and B Bldg., $19,927; Elmwood Ave., to T. Holohan, $39,051; Atlantic Ave., to Whitmore, Rauber & Vicinus, 279 South Ave., $63,608; Thurston Rd., to Rochester Vulcanite Paving Co., Exchange Pl. Bldg., $[illegible]949, all asphalt.

N. Y., Utica—Bd. Contr. & Supplies received bids, from H. W. Roberts, 610 Lansing St., resurfacing with (a) bitulithic, (b) sheet asphalt, (c) asphaltic concrete, Eagle St. from Genesee St. to Park Ave., (a) $2800, (b) $2720, (c) $2620; John St. from Main to Catharine Sts., (a) $9661, (b) $9258, (c) $8743; Whitesboro St. from Genesee to Seneca Sts., (a) $13,997, (b) $13,453, (c) $12,773; Seneca St. from Erie Canal to Columbia St., (a) $10,035, (b) $9651, (c) $9171; Bway. from Columbia to Court Sts., (a) $12,406, (b) $11,982, (c) $11,45[illegible]; Arthur St. from Steuben to West Sts., (a) $4376, (b) $4265, (c) $4125; Cornelia St. from Lafayette to Cooper Sts., (a) $7677, (b) $7420, (c) $7119; John St. from Bleecker to Elizabeth Sts., (a) $5647, (b) $5423, (c) $5143.

★**N. Y., Watertown**—City will pave South Massey St. from Ives to City limits, macadam. About $10,000. Work will be done by day labor. Noted June 19.

★**N. J., Jersey City**—Bd. Freeholders Hudson Co. let contract improving Paterson Turnpike, to Hudson Contg. Co., 452 Montgomery St., 107½ per cent. $83,441 (engineers estimate). Noted June 12.

★**N. J., Newark**—City let contract paving and curbing 12,023 lin. ft McAllister, Dupont, Eeus, Paine, Nesbit, Chestnut, Union and Banta Sts., 35 ft. wide, to J. Dore, Irvington, $125,000. Work involves 12,02[illegible] lin. ft. concrete curbing, 11,600 sq.yd. asphalt, 20,733 sq.yd. concrete and 21,500 cu. yd. earth excav.

Pennsylvania—State Highway Dept., Harrisburg, received bids June 24 building roads in counties as follows:

(a) Blair Co., 1269 lin. ft. rein.-con.;

(b) Columbia Co., (1) 9122 ft. bituminous surface course on concrete foundation, (2) 10,870 ft. bituminous surface course on concrete foundation and Hillside vitr. brick.

(c) Dauphin Co., (1) 24,765 ft. rein.-con. (2) 12,725 ft. bituminous surface course on concrete foundation or rein.-con.;

(d) Lancaster Co., 21,506 ft. bituminous surface course on concrete foundation or rein.-con

Streets and Roads—(Continued)

(e) McKean Co., 31,548 ft. rein.-con. on concrete foundation or vitr. brick;

(f) Northumberland Co., (1) 25,698 ft. rein.-con. and Hillside vitr. brick, (2) 9641 lin.ft. bituminous surface course on concrete foundation or rein.-con., from Standard Contg. Co., Altoona Trust Bldg., Altoona. (a) $19,880; G. I. Thompson & Co., Clearfield, (a) $20,844; Boyle Constr. Co., Wilkes-Barre, (b) $84,630, (b2) $169,621; T. L. Evans Sons, Danville, (b1) $93,666; W. P. McDonald Constr. Co., Phila., (b1) $97,894, (b2) $156,345; Eastern Paving Co., Colonial Trust Bldg., Phila., (b2) $165,087, (c2) $159,614; H. Nawn Contg. Co., Phila., (c1) $186,863, (c2) $143,812; Mason & Hanger Co., Inc., Chambersburg, (c1) $191,009, (f) $199,627; Hamilton-Kapnek Constr. Co., Phila., (c1) $192,313; J. McGraw Co., Commercial Trust Bldg., Phila., (c2) $144,889; Claiborne-Johnston & Co., 10th Ave. and 6th St., Baltimore, (d) $162,093, (f) $202,002; J. F. Shanley, Commercial Trust Bldg., Phila., (d) $166,803; Souder Constr. Co., 214 East Orange St., Lancaster, (d) $177,699; Lesher & Roess, 700 West Front St., Oil City, (e) $231,680; E. M. Love & Son, Cameron Blk., Corry, (e) $263,154; E. A. Corson, 739 Asbury St., Ocean City, N. J., (f) $207,680; Wertley & Houser, Pottsville, (g) $64,007; Gifford Constr. Co., Jamaica, N. Y., (g) $71,814; Warren Bros. Co., 142 Berkeley St., Boston, (g) $72,368. Noted June 12.

★**Pa., Canonsburg**—Boro. let contract grading, curbing and paving with concrete, 1823 ft. Van Eman, Chartiers, Hutchinson and Hawthorne Sts., 14-24 ft. wide, to R. W. Wilson, Canonsburg, $13,046. Noted June 26.

★**Pa., Coatesville**—City let contract paving various streets, to Dunleavy Bros., Coatesville, cost $92,204. Noted June 12.

Pa., Pittsburgh—Allegheny Co. received bids improving 17,000 ft. Butler Pike, Shaler and Hampton Twps., 20 ft. wide, involving 25,000 sq.yd. Hillside vitr. brick, 12,000 sq.yd. asphaltic concrete, 15,450 lin. ft. raised integral and concrete, curbing, etc., from McDonald, McNeil Co., Pittsburgh, $161,858, Booth & Flynn, 1942 Forbes St., $165,019, Columbus Asphalt & Paving Co., Keystone Bldg., $166,320; also 8000 ft. Bakerstown & Warrendale Rd., Pine Twp., 2950 sq.yd. Hillside vitr. brick, 12,700 sq.yd. rein.-con., 22,000 cu.yd. earth excav., 3300 sq.yd. concrete base and shoulders, etc. from T. Cronin Co., South 17th and Muriel Sts., $84,163, J. McQuaide & Sons, Bakewell Bldg., $100,245, T. McNally, Oliver Bldg., $100,299. Noted June 5.

★**Pa., Somerset**—Town Council let contract paving South West St., concrete, to F. H. Ziegler, Somerset, cost $11,134.

★**Md., Chestertown**—Comrs. Kent Co. let contract resurfacing 5 mi. Betterton-Still Pond Rd., waterbound macadam, 3½ in. stone base, to Sutton Contg. Co., 640 Heed Bldg., Phila.

★**Va., Norton**—City let contract for 20,000 yd. Trinidad Lake sheet asphalt paving on 6 in. concrete base, to J. J. Curley, 406 East Baker St., Richmond, $4.30 per sq.yd.

W. Va., Winfield—Putnam Co. received bids building 4 mi. Midland Trail Rd., from Cullonden toward St. Albans, involving 30,000 cu.yd. excav. and 37,000 sq.yd. concrete, from T. Pietro, Morgantown, $124,704; Keeley Constr. Co., $133,683, and Brown & Floyd, $135,839.

★**N. C., Gastonia**—City let contract paving 3 mi. Pleasant Ridge Rd., 18 ft. wide, to Simmons-Whitton Co., Charlotte. About $75,000. Noted May 22.

★**N. C., Hillsboro**—Orange Co. let contract grading, top-soiling and building culverts on 18 mi. road from Durham Co. line to Alamance Co. line, 16-18 ft. wide, to W. S. & L. A. Crawford, Mebane, $33,813. Work involves 6 cu.yd. concrete, 13,500 cu.yd. earth excav., 60 lin.ft. standard vitr. pipe and 41,500 cu.yd. soil surfacing.

★**S. C., Columbia**—City let contract resurfacing Main St., from Gervais to Scott Sts., 60 ft. wide, involving 30,000 sq.yd. sheet asphalt, etc., to R. M. Hudson Co., Union Natl. Bank Bldg., $1.35 per sq.yd.

★**Ga., Dublin**—City let contract paving, draining, curbing and guttering 40,000 sq.yd. with bituminous concrete, 2 in. top, to Ely Constr. Co., Lamar Bldg., Augusta. About $98,000. Noted June 5.

★**Louisiana**—State Highway Dept., New Orleans, let contract building 1.66 mi. bituminous macadam highway branching from Alexandria-Camp Beauregard Rd. to United States Reconstruction Base Hospital, in Rapides Parish, to Southern Bitulithic Co., Weis Bldg., New Orleans. About $60,000. Noted June 12.

O., Cleveland—City received bids paving Eichorn Ave. from West 45th to 54th Sts., from Roehl Bros., West 25th St. and Clark Ave., cost $25,013, Baldwin Bros., 4500 Euclid Ave., $26,375, Rieley Bros., 357 The Arcade, $26,454; Nordica Ave. from West 73rd to 80th Sts., from M. P. Platten, 2013 Columbus Rd., $12,931, Freshwater Constr. Co., 11,712 Detroit Ave., $11,605, Rieley Bros., 357 The Arcade, $11,644. Noted June 19.

★**O., Cleveland**—City let contracts to Cleveland Trinidad Paving Co., The Arcade, paving South Moreland Blvd. from Shaker Blvd. to Buckeye Rd., cost $14,786; South Moreland Blvd. from Shaker Blvd. to Drexmore Ave., $20,000; Ripley Ave. from Hampton Rd. to Ashwood Ave., $12,359; North Moreland Blvd. from Shaker Blvd. to Woodland Ave., $11,887; Ludlow Ave. from East 132nd St. to city limits, $27,148; Livingston Rd. from East 132nd St. to Abell Ave., $32,036; Keswick Rd. from Hampton Rd. to city limits, $10,081; Hampton Rd. from East 132nd St. to Albion Ave., $32,851; Drexmore Rd. from South Moreland Blvd. to city limits, $14,134; Corby Rd. from Hampton to Ludlow Rds., $11,099; Becket Rd. from Hampton Rd. to city limits, $26,447; Albion Rd. from Hampton Rd. to city limits, $15,153; East 132nd St. from Shaker Blvd. to Griffing Ave., $63,049; Chadbourne Ave. from Drexmore Ave. to city limits, $11,556; Ashwood Ave. from East 132nd St. to city limits $31,355. Noted June 19.

★**O., Toledo**—Comrs. Lucas Co. let contracts, to M. P. Hannin, 430 Valentine Bldg., grading, draining, curbing and paving 1½ mi. Perkside roads and streets, 4 ft. wide, 3 in. vertical fibre vitr. brick, cost $107,729; 7966 ft. Yondota Rd., 16 ft. wide, waterbound macadam, $28,098; to R. A. Garrigan, 434 Valentine Bldg., 4.39 mi. Sylvania-Alexis Rd., 16 ft. wide, 6-8 in. concrete, $117,357; to Warner & McKechnie, 320 Nasby Bldg., 1.87 mi. Key St., 16 ft. wide, 1-2-3 concrete, $40,579; to A. Langenderfer, 437 Spitzer Bldg., 6905 ft. Lyon Rd., 16 ft. wide, waterbound macadam, $25,391. Noted June 5.

Ind., Indianapolis—City received bids resurfacing over brick with Trinidad asphalt or brick, (a) Chesapeak St. from Illinois to Pennsylvania Sts., (b) Vermont St. from East to West Sts., with Trinidad lake asphalt, (c) Henry St. from Meridian to Illinois Sts., (d) Alabama St. from Washington to Ohio Sts., (e) Alabama St. from Washington to Maryland Sts., improving (f) alley east of Ruckle St. between 20th and 21st Sts., paving (g) Blackford St. from Washington St. to tracks south of canal, (h) alley south of 15th St. from alley east of Hudson to Alabama Sts., (i) 44th St. from Bway. to Central Ave., (j) 36th St. from Central to College Aves., from Union Asphalt Constr. Co., 308 Amer. Central Life Bldg., (a) asphalt, $2.73 per lin. ft., (b) asphalt $7.14, (d) asphalt, $6.02, (e) asphalt, $9.03; Columbia Constr. Co., Indianapolis, (a) brick, $4.00, (f) brick, $3.00, concrete $2.45, (g) brick, $7.50 concrete, $5.90, (h) brick, $3.70, concrete $3.20; Amer. Constr. Co., 108 North Delaware St., (b) asphalt, $7.39, (g) asphalt, $7.30, (i) asphalt, $6.42, bituminous concrete, $6.08, (j) asphalt, $6.10, bituminous concrete, $5.70; Marion Co. Constr. Co., 367 South Illinois St., (c) asphalt, $6.40; Abl Bros., 402 Amer. Central Life Bldg., concrete, $2.45.

Ind., Indianapolis—City received bids resurfacing (a) 749 ft. North St. from Noble to Pine Sts., 27 ft. wide, Trinidad asphalt, (b) 420 ft. North St. from Meridian to Pennsylvania Sts., 40 ft. wide, Trinidad asphalt, (c) 2576 ft. Shelby St. from 1st alley south of Prospect Ave. to Pleasant view bridge, 40 ft. wide, asphalt, (d) 870 ft. Ohio St. from Senate Ave. to West St., 40 ft. wide, Trinidad asphalt, (e) Ohio St. from Capitol to Senate Aves., asphalt, from Premier Constr. Co., 1023 Lemcke Annex (a) $5.43 per lin. ft., (b) $5.55, (c) $3.25, (d) $5.66, (e) $7.08; Union Asphalt Contg. Co., 308 Amer. Life Bldg., (a) $5.95, (b) $5.55, (c) $3.30, (d) 6.00, (e) $7.00; Marion Co. Constr. Co., 1600 South West St., (c) $3.55.

★**Ind., Indianapolis**—City let contract resurfacing Michigan St. from East St. to Indiana Ave., to Premier Constr. Co., 1023 Lemcke Bldg., $7.05 per lin.ft., total cost $51,635; Vermont St. from East to West Sts., to Union Asphalt Paving Co., 308 Amer. Central Life Bldg., $7.19, total cost $57,632. Noted June 19.

★**Ind., Indianapolis**—City let contract, to Marion Constr. Co., 1600 South West St., resurfacing with asphalt, Maryland St. from Senate Ave to West St., $12,923, Kentucky Ave. from Illinois to Georgia Sts., $13,587, Senate Ave. from Washington St. to Kentucky Ave., $11,087, Senate Ave. from Washington St. to Indiana Ave., $28,140; Amer. Constr. Co., 108 North Delaware St., Washington St. to point 55 ft. west of Eeisendorff St., $63,096.

Mich., Detroit—Dept. Pub. Wks. received bids paving with sheet asphalt or asphaltic concrete on 6 in. concrete foundation, Amherst or Berea curbstone, (a) Moran St., (b) Arizona Ave., (c) Brandon Ave., (d) Garfield Ave., (e) Minnesota Ave., (f) Maxwell Ave., (g) Philadelphia Ave., (h) Richter St., (i) Solvay Ave., (j) Walbridge St., from Detroit Asphalt Paving Co., 20 McGraw Bldg., (a) $7280, (b) $8548, (c) $7376, (d) $57,376, (e) $22,985, (f) $11,518, (g) $35,298, (h) $9591, (i) $38,358, (j) $7867; W. B. Brady Constr. Co. 1972 Grand River Ave., (a) $7399, (b) $8579, (c) $7737, (d) $57,700, (e) $23,296, (f) $12,046, (g) $35,068, (h) $9641, (i) $39,307, (j) $8239; Cleveland Trinidad Paving Co., 2940 Woodward Ave., (a) $7425, (b) $8395, (c) $7813, (d) $58,338, (e) $22,811, (f) $11,756, (g) $35,916, (h) $9943, (i) $39,781, (j) $8155. Noted May 22 and June 12.

★**Mich., Hamtramck**—City let contract grading, widening and paving 1900 ft. Joseph Campau Ave. from village limits to Grand Trunk Ry. crossing, 26-30 ft. wide, creosoted wood block on new 6 in. concrete foundation, to Lennance Bros., 809 Union Trust Bldg., Detroit. Noted Feb. 13.

★**Mich., Pontiac**—City let contract, to Globe Constr. Co., Pontiac, paving with bitulithic macadam, Fairgrove Ave., 28 ft. wide, cost, $13,231; West Huron St., double roadway, 18 ft. wide each, $16,824; Ottawa Dr., $39,640.

★**Ill., Chicago**—Bd. Local Impvts. let contract paving (a) Archer Ave., (b) Devon Ave., (c) Hayne Ave., (d) Karlov Ave., (e) Keating St., (f) Kolin St., (g) Lawrence Ave., (h) Leavitt St., (i) Longwood Dr., (j) Morgan St., (k) Otto St., (l) South Chicago Ave., (m) South Park Ave., (n) West 35th Pl., (o) South Wabash Ave., (p) Windsor Ave., (q) Lafayette Ave., (r) North Claremont, Oakley and Irving Sts. and Rosemont, Highland and Thome Aves., (s) Cornelia, Rosecoe, Henderson, School, Melrose, Karlov, Kedvale, Keeler and Lowel Aves., to Reidy & Callaghan, 133 West Washington St., (a) $66,452; Smith & Brown Co., 128 North La Salle St., (b) $19,569; R. F. Conway Co., 133 West Washington St., (c) $34,395, (e) $30,806, (n) $14,642, (p) $11,888; Standard Paving Co., 29 South La Salle St., (d) $35,007, (f) $11,455; Ryan Co., 4500 West Division St., (g) $99,267; Central Paving Co., 179 West Washington St., (h) $5250; Amer. Asphalt Paving Co., 133 West Washington St., (i) $39,758, (j) $10,148, (k) $14,812, (q) $59,261; Calumet Coal & Teaming Co., 9022 Commercial Ave., (l) $57,046; Farr Bros. Co., 356 West 111th St., (m) $76,378, (o) $5494; J. A. McGarry & Co., 189 West Madison St., (r) $61,381; White Paving Co.; 17 North La Salle St., (s) $110,149. Noted June 19.

Ill., Chicago—Bd. Local Impvts. received bids June 26, paving (a) alley between Lake St., Park Ave., Paulina and Hermitage Sts., involving 590 sq.yd. 7 in. cement, 226 cu.yd. grading;

(b) alley between Washington Blvd., Madison and Kilpatrick Sts., and Cicero Ave., 584 cu.yd. grading, 1320 sq.yd. 7 in. cement, 240 ft. 10 in. tile sewer, 1 brick catch basin, etc.;

(c) alley between Colorado Ave., Jackson Blvd., Whipple St. and Albany Ave., 1720 ft. cement curbing, 450 cu.yd. excav., 1360 sq.yd. 7 in. cement paving;

(d) alley between East 65th St., Marquette Rd., Maryland and Cottage Grove Aves., 220 cu.yd. grading, 890 sq.yd. 7 in. cement pavement, 2 brick catch basins;

(e) alley between West 86th Pl., West 87th St., Vincennes Ave. and Sangamon St., 225 cu.yd. grading, 1140 sq.yd. 7 in. cement pavement;

(f) Augusta St., from Kedzie to Grand Aves., 1060 ft. concrete curbing, 831 cu.yd. grading, 1620 sq.yd. asphalt pavement on 6 in. concrete base, etc.;

(g) Belmont St., from Bway. to Sheridan Rd., 2540 ft. cement curb, 2000 cu.yd. excav., 5200 sq.yd. asphalt pavement on 6 in. concrete base, etc.;

(h) Besley Court from West North Ave. to Wabansia St., 1600 ft. sandstone curbing, 1475 cu.yd. grading, 2660 sq.yd. vitr. brick on 6 in. concrete base, etc.;

Streets and Roads—(Continued)

(i) Clyde Ave. from East 73rd to East 75th Sts., 2500 ft. cement curbing, 1500 cu.yd. grading, 3600 sq.yd. asphalt pavement on 6 in. concrete base, etc.;

(j) Ellen St. from Wood to Lincoln Sts., 1300 ft. cement curbing, 910 cu.yd. grading, 2100 sq.yd. asphalt pavement on 6 in. concrete base, etc.;

(k) La Crosse Ave. from West End to Park Aves., 800 ft. cement curbing, 1028 cu.yd. grading, 1210 sq.yd. asphalt pavement on 6 in. concrete base, etc.;

(l) North Racine Ave. from Grace to point 395 ft. north, 360 ft. cement curbing, 1200 cu.yd. grading, 1400 sq.yd. pavement with 8 in. blast furnace slag or limestone on 2½ in. grading or traprock;

(m) Shields St. from West 59th to West 58th Sts., 890 ft. concrete curbing, 600 cu.yd. grading, 1430 sq.yd. asphalt pavement on 6 in. concrete base, etc.;

(n) Shields St. from West 35th St. to point 631 ft. south, 500 ft. concrete curbing, 1000 cu.yd. grading, 2760 sq.yd. vitr. brick pavement on 6 in. concrete base; 205 ft. 12 in. tile sewer, etc.;

(o) South Union Ave. from West 101st to West 102nd Sts., 1200 ft. concrete curbing, 800 cu.yd. grading, 2000 sq.yd. pavement with 8 in. blast furnace slag or limestone on 2½ in. granite or traprock;

(p) Wabansia St. from Kedzie Ave. to Chicago, Milwaukee & St. Paul R.R. tracks, 7120 ft. concrete curbing, 4700 cu.yd. grading, 11,420 sq.yd. asphalt pavement on 6 in. concrete base, 210 ft. 10 in. tile sewer, etc.;

(q) West Walton St. from Keeler Ave. to Kilbourne St., 3960 ft. concrete curbing, 3432 cu.yd. grading, 6400 sq.yd. asphalt pavement on 6 in. concrete base, etc.;

(r) Wolfram St. from Ashland Ave. to Paulina St., 1300 ft. concrete curbing, 900 cu.yd. grading, 2000 sq.yd. asphalt pavement on 6 in. concrete base;

(s) East 71st and East 72nd Sts. from South Shore Dr. to point 122 ft. east, 1490 ft. concrete curbing, 2200 cu.yd. grading, 2410 sq.yd. asphalt pavement on 6 in. concrete base, etc.;

(t) South Richmond St. from West 63rd to West 67th Sts., South Sacramento Ave. from West 63rd to West 67th Sts., West 64th and West 66th Sts. from Sacramento Ave. to Francisco St., 14,280 ft. concrete curbing, 6000 cu.yd. grading, 21,250 sq.yd. asphalt pavement on 6 in. concrete base, etc.;

(u) South Marshfield Ave. from Hermitage to Paulina Sts., Wood St. from West 72nd to West 74th Sts., Lincoln St. from West 71st to West 74th Sts., Winchester St. from West 71st to West 74th Sts., West 71st, West 72nd and West 73rd Sts. from Ashland Ave. to Robey St., 36,900 ft. concrete curbing, 23,000 cu.yd. grading, 59,360 sq.yd. asphalt on 6 in. concrete base, etc.;

(v) Potomac Ave. from Homan Ave. to Chicago Milwaukee & St. Paul R.R. tracks, St. Louis Ave. from Evergreen St. to Potomac Ave., 2940 ft. concrete curbing, 4500 cu.yd. grading, 4700 sq.yd. asphalt pavement on 6 in. concrete base, 110 ft. 10 in. tile sewer, etc., from

J. A. Ross & Co., 4561 Armitage Ave., (a) $1765;

P. J. O'Brien, 29 South La Salle St., (a) $1770, (b) $4544, (d) $2731, (e) $3008;

Marquette Constr. Co., 133 West Washington St., (a) $1800, (b) $4643, (h) $15,831, (n) $15,006;

J. Dillon & Co., 179 West Washington St., (b) $4603, (d) $2685, (e) $2972;

White Paving Co., 17 North La Salle St., (c) $4725, (e) $20,366, (f) $15,723, (j) $9919, (r) $7535, (u) $248,972;

Amer. Asphalt Paving Co., 133 West Washington St., (c) $4840, (f) $6753, (g) $20,780, (i) $15,189, (j) $10,004, (k) $5369, (m) $5372, (p) $45,527, (q) $27,698, (s) $10,791, (t) $67,939, (u) $246,320, (v) $22,573;

R. F. Conway & Co., 133 West Washington St., (c) $5260, (m) $5634, (r) $7776, (s) $11,443, (t) $68,713, (u) $244,090;

Central Paving Co., 179 West Washington St., (d) $2724, (e) $3052, (l) $4904, (o) $7053;

F. P. McCormick & Co., 133 West Washington St., (f) $6821, (g) $20,545, (i) $15,943, (j) $10,058, (k) $5334, (m) $5478, (p) $45,210, (q) $28,000, (r) $7741, (s) $10,767, (v) $22,726;

Contg. & Material Co., 10 South La Salle St., (b) $15,984, (l) $4989, (n) $14,818, (o) $6925;

Smith & Brown, 128 North La Salle St., (h) $16,026, (n) $15,037;

Standard Paving Co., 29 South La Salle St., (f) $6737, (k) $5285, (p) $45,976, (q) $28,022, (t) $68,751, (v) $22,348;

J. A. Sackley & Co., 179 West Washington St., (l) $5010;

Farr Bros. Co., 356 West 111th St., (o) $6809.

Ill., Rock Island—City received only bid paving 5th Ave. from 2nd to 13th Sts., involving 9668 sq.yd. asphaltic concrete, 7251 lin.ft. curbing, from C. F. Cruksensuch, Rock Island, $37,001.

★**Wisconsin**—State Highway Comn., Green Bay, let contract grading and concrete surfacing 4 mi. Appleton-Dale Medina Rd., 16 ft. wide, Outagamie Co. to Greunke Bros., Appleton, $92,000; Stiles Jct.-Oconto Falls Rd., 15 ft. wide, Oconto Co., C. Kinney, Stiles, $25,000; 5½ mi. Green Bay-Appleton Rd., 16 ft. wide, Brown Co., Jorgensen Constr. Co., Denmark, $120,000. Noted June 5.

★**Wis., Chilton**—City let contract grading and paving, 4.8 mi., Division and Main Sts., 18 ft. wide, involving 19,000 sq.yd. sheet asphalt on concrete base and 8500 lin.ft. concrete curb and gutter, to F. P. Coughlin, Grand and Wells St., Milwaukee, $57,362. Noted June 5.

★**Wis., Milwaukee**—Bd. Pub. Wks. received lowest 3 bids paving 8th, 56th, 57th, 58th and Clinton Sts., Shepard and Kinnickinnic Aves., from Blodgett, Clayton Constr. Co., 204 Grand Ave., $20,725; Badger Constr. Co., 97 Wisconsin St., $22,869; White Constr. Co., 425 East Water St., $25,007. Work involves 10,176 cu.yd. earth excav., 21,732 cu.yd. concrete, 6044 ft. cement sidewalks, 1136 ft. cement and 1204 lin.ft. limestone curb, 19,450 sq.yd. asphalt and 6435 sq.yd. hard sandstone pavement. G. Staahl, engr. Noted June 26.

★**Wis., Milwaukee**—City let contract paving Cherry St. from 10th to 11th Sts., asphalt and granite block, to Badger Constr. Co., 97 Wisconsin St., $3081; Commerce St. from Poplar to Walnut Sts., asphalt and granite block, to Manager & McGucken, 332 22nd Ave., $39,187.

★**Wis., Oshkosh**—Comrs. Winnebago Co. let contract grading and concrete surfacing 2 mi. Appleton-Menasha Rd., 18 ft. wide, to J. Young Bros., Oconlo, about $38,000; 1 mi. Oshkosh-Fond du Lac Rd., 18 ft. wide, to Hutter Lewis Co., Fond du Lac, $25,000; 5 mi. Oshkosh-Winneconne Rd., 16 ft. wide, to Manger & McGuken, 332 Layton Blk., Milwaukee, $111,000. Noted June 5.

Wis., Plymouth—City received lowest 3 bids grading and paving 5.8 mi. Reed and Selma Sts., 18 ft. wide, involving 23,000 sq.yd. vitr. brick, asphalt or concrete and 13,000 lin.ft. concrete curb and gutter, from Murphy Constr. Co., Manitowoc, $2.03 and $2.23 per sq.yd.; F. P. Coughlin Co., Humboldt and North Sts., Milwaukee, $3.20; F. Radloff, Main St., $3.25 and $3.02. Noted June 12.

Wis., Racine—City received lowest bid from Western Impvt. Co., 9th St., improving Grange Ave., involving 7750 sq.yd. paving, $2.67 per sq.yd., sheet asphalt, $3.12 per sq.yd., brick, $2.39 per sq.yd., asphaltic concrete, 3975 lin.ft. curb and gutter, $0.79 per lin.ft.; Osborne Blvd., involving 8970 sq.yd. paving, $2.77 sheet asphalt, $3.22 brick, $249 asphaltic concrete, $3.08 vertical fibre brick, and 3179 lin.ft curb and gutter, $0.82. Noted June 5.

★**Wis., Racine**—City let contract, to Western Impvt. Co., 9th St., improving Main St., Hilker and Davis Places, involving 3247 sq.yd. sheet asphalt, at $2.48 per sq.yd., 2324 lin.ft. curb and gutter $0.84 per lin.ft.; Blake Ave, 8400 sq.yd. sheet asphalt, $2.73, 4400 lin.ft. curb and gutter, $0.82; 10th St., 3634 sq.yd. asphaltic concrete, $2.46, 2436 lin.ft. curb and gutter, $0.82; Howe St., 10,050 sq.yd. sheet asphalt, $2.70, 5313 lin.ft. curb and gutter, $0.82; to J. Cape & Co., Water St., Howland Ave., 2370 sq.yd. grading, 2880 sq.ft. sidewalks, 2763 sq.yd. asphaltic macadam, $2.60, 1812 lin.ft. curb and gutter, $0.82; Lake Ave., 4590 sq.yd. paving, Barr brick, $3.16, vertical fibre, $2.86, 2766 lin.ft. curb and gutter, $0.82; 7th St., 4460 sq.yd. paving, Barr brick, $2.35, vertical fibre brick, $2.05, 2400 lin.ft. curb and gutter; Milwaukee Ave., 17,700 sq.yd. paving, brick $2.30, vertical fibre, $2, 7740 lin.ft. curb and gutter, $0.82; Yout St., 13,895 sq.yd. paving, Barr brick $3.16, vertical fibre brick, $2.86, 7232 lin.ft. curb and gutter, $0.82; Prospect St., 3850 sq.yd. paving, brick $3.16, vertical fibre brick $2.86, 2762 lin.ft. curb and gutter, $0.82. Noted June 5.

★**Minn., Duluth**—J. A. Farrell, city comr., let contract paving 4520 ft. Cooke St. from 40th Ave. E. to Superior St., to A. A. Bodin & Son, 408 Columbia Bldg., $59,996; 3600 ft. 59th Ave., W., from Main to Elinor St., to A. N. Nelson, 1014 East 6th St., $5810; 3500 ft. East 8th and 9th Sts., to D. H. Clough & Co., 914½ East 1st St., $18,337. Noted June 19.

★**Minn., Minneapolis**—Comrs. Hennepin Co. let contract grading 4 mi. County Rd. No. 9, Medina Twp., to S. J. Groves & Sons, 100 Kasota Bldg., $19,630. Noted June 5.

Minn., St. Paul—H. W. Austin, purch. agt., City Hall, received lowest bid paving and building water and sewer connections in Woodlawn Ave. between St. Clair and Goodrich Ave., Fairmount Ave. between Woodlawn and Cretin Aves., Princeton Ave. between Cretin Ave. and Mississippi River Blvd. and Mt. Curve Blvd. between Fairmount Ave. and St. Clair St. from Fielding & Shepley, 216 University Ave., entire job $105,900, for labor and materials exclusive of sewer and water connections, 83,200, for water connections $6000.

★**Kan., Junction City**—Geary Co. let contracts, to Ziegler & Dalton, Junction City, building 7.47 mi. Golden Belt Rd., 18 ft. wide, concrete, at $2.40 per sq.yd. total, $220,520; 4068 ft. 8th St. Rd., 18 ft. wide, concrete, at $2.30 per sq.yd. total, $21,490. Noted May 22.

★**Kan., Pratt**—City let contract for 53,600 sq.yd. vitr. brick pavement and 22,524 ft. concrete gutter and curb to W. R. Amerman, Salina, $226,125. Noted June 12.

★**Neb., Madison**—City let contract paving 3400 ft. 2nd, 3rd and 8th Sts., 24-50 ft. wide, to Abel Constr. Co., 318-19 Terminal Bldg., Lincoln, $53,101. Noted June 19.

★**Neb., Wahoo**—Comrs. Saunders Co. let contract, to Allied Contractors, Inc., 304 Bee Bldg., Omaha, for 64,000 yd. paving, $3.48 per yd. 28,000 lin.ft. combination curb and gutter, 75c. per ft. and 26,000 yd. grading, 60¢ per yard.

★**Wyo., Casper**—City let contract paving streets in Dist. No. 8, 46-56 in wide, to Warren Constr. Co., Journal Bldg., Portland, Ore., $138,484. Work involves 6060 lin.ft. concrete curb, 7915 lin.ft. combined curb and gutter, 5000 cu.yd. earth excav. and 40,100 sq.yd. bitulithic concrete on 5 in. concrete base.

★**Mo., St. Louis**—City will grade aerial mail service landing field, 1400 x 1800 ft. in Forest Park. About $19,000. Work will be done by day labor.

★**Mo., St. Louis**—City let contracts to Eyermann Constr. Co., 1216 South Grand St., paving 1982 ft. Walsh St. from Virginia to Grand Aves., 36 ft. wide, vitr. brick, granite curbing, cost $40,164; 954 ft. Minnesota St. from Bates to Eichelberger Sts., 30 ft. wide, vitr. brick, concrete curbing, $15,547; J. E. Perkinson, 3237 Carter St., paving 3270 ft. Alcott Ave. from Bircher to Thelka Sts., 26 ft. wide, vitr. brick, concrete curbing, $49,800, 857 ft. Leahy Ave. from Euclid St. to Kings Highway, 24 ft. wide, vitr. brick, granite curbing, $11,087; Skrainka Constr. Co., Security Bldg., paving 3225 ft. Thrush Ave. from West Florissant to Lillian Sts., 30 ft. wide, vitr. brick, concrete curbing, $53,199, 1317 ft. Claxton St. from Bircher to Lillian Aves., 30 ft. wide, vitr. brick, granite curbing, $20,502.

Tex., Houston—Comrs. Harris Co. received lowest 3 bids improving 4.24 mi. Highway No. 12 on Richmond Rd. from Main St. Blvd. to railroad crossing, 14 ft. wide, crushed or gravel surface with shell binder, drainage structures, etc., involving 10,713 cu.yd. earth excav., and 1704 tons shell binder, from Smith & James, Houston, $21,572; Horton & Horton, McKinnie and Velasco Sts., Houston, $22,894; M. M. Craven, Missouri City, $24,256. Howe & Wise, 628-9 Chronicle Bldg., Houston, engrs.

★**Okla., Oklahoma** — City let contract paving and improving 13th St. from Kentucky to Pennsylvania Sts., and 5th St. from Western to McKinley Sts., to Western Paving Co., Terminal Bldg., $18,945 and $30,000 respectively. Noted June 12.

★**Idaho, Buhl**—City let contract paving Walnut St. and 9th Ave. also Main St. from 14th to City Hotel, and Bway. from railroad crossing to city limits, bitulithic to Warren Constr. Co., Journal Bldg., Portland, Ore., $123,825.

★**Utah**—State Highway Comn., Salt Lake City, let contract paving 6.3 mi. state road from Logan to Smithfield, 18 ft. wide, Cache Co., involving 66,500 sq.yd. concrete and 4700 cu.yd. earth excav., to P. J. Moran, Filt Bldg., Salt Lake City, $141,225; 4.81 mi. state road from Provo to Spanish Fork

Streets and Roads—(Continued)

18 ft. wide, **Provo Co.**, to J. W. Meelen, Auditorium Bldg., Salt Lake City, $120,915; 8.13 mi. state road from Logan to Wellsville, 18 ft. wide, Cache Co., involving 85,852 sq.yd 6-8 in. concrete and 6000 cu. yd. grading, to O. Nelson, Logan, $190,904.

★**Utah, Provo**—City let contract paving 36,000 ft. Center St. from 1st E to 7th E Sts., 36 ft. wide, to Wasateh Grading Co., Dooly Bldg., Salt Lake City, $56,418. Noted April 17.

Utah, Salt Lake City—Comrs. Salt Lake Co., received bids improving 6 mi. Bingham Highway from State St. to Welby, 18 ft., wide, involving 64,800 sq.yd. 2 in. bituminous surface, from Clifton Applegate Toole Co., Billings, Mont., $177,933; J. W. Mellen, Auditorium Bldg., $222,557; Strange & McGuire, Utah Savings & Trust Bldg. $207,959. Noted Jnue 5.

★**Utah, Salt Lake City**—Comrs. Salt Lake Co. let contract paving 6 mi. state road from 33rd St. to Bingham Highway, 18 ft. wide, involving 63,600 sq.yd. 6-8 in. concrete and 9000 cu.yd. grading, to Ryberg Bros., Atlas Blk., $147,595.

★**Wash., Enumclaw**—City let contract grading and hard surfacing with concrete, in Impvt. Dist. No. 7, to Larson Constr. Co., Perkins Bldg., Tacoma, $64,068. Noted June 12.

★**Wash., Wenatchee**—City let contract paving 1.2 mi. Wenatchee Ave., concrete, to Burke & Singfelder, 1321 9th Ave., Spokane, $34,900. Noted May 22.

★**California**—State Highway Comn., Forum Bldg., Sacramento, let contract building Sect. D, Route 10, Div. 6, state highway between Coalinga and Oil King School, Fresno Co., to J. G. Donovan, 2202 South Westmoreland St., Los Angeles, $128,997. Noted June 19.

★**Cal., San Francisco**—City let contract improving Howth St., to Raisch Impvt. Co., 46 Kearny St., $24,821. Work involves grading, brick and asphalt paving, concrete curbs, artificial stone sidewalks, brick catch basins and 8-12 in. vitr. pipe sewers.

★**N. S., Halifax**—Provincial Highway Bd. let contract building 4 mi. bitulithic macadam highway, 16 ft. wide, from here toward Bedford, to Barrett Co., Ltd., Halifax. About $72,000.

★**Que., Frampton**—City will build 7 mi. St. Malachie-Frampton Rd. Work will be done by day labor.

★**Ont., Ford City**—City let contract building sidewalks, to C. Desgardin, Main St. About $30,000.

★**Ont., Toronto**—City will pave Coleman, Cortleigh, Crescent, Dartwell, Delaware and McLean Aves., concrete. About $15,000. Work will be done by day labor.

Railways

PROPOSED WORK

Oregon—St. Helens Dock & Terminal Co., St. Helens, recently incorporated with $200,000 capital, plans to build 1.5 mi. railroad to connect Milton Creek Logging Co. with Spokane, Portland & Seattle R.R., cost $60,000; also build 2500 ft. loading dock on slough at Sauvies Island, first unit 500 ft. Address H. F. McCormick, c/o St. Helens Lumber Co., St. Helens, vice pres.

Excavation and Dredging

PROPOSED WORK

Mich., Detroit—Excavation—See "Streets and Roads."

Cal., Bakersfield—Irrigation—A. L. Fellows, federal irrigation engr., reported project to irrigate lands in Kern River Delta Dist. feasible, and interested parties have appointed committee headed by H. T. Miller, Bakersfield, to perfect organization of irrigation district under state law. Engineer recommended acquisition of water rights and distributing systems in district, construction of drainage ditches, pumping plants, storage facilities for more than 1,500,000 acre ft., development of power, etc. District will comprise 684,160 acres and will probably be known as Kern River Delta Irrigation Dist. Noted Mar. 20.

N. B., Cape Tormentine—Dredging—C. B. Brown, Moncton, engr. Canadian Natl. Rys., Montreal, Que., soon lets contract dredging at ferry terminal here. About $150,000.

BIDS DESIRED

O., Kenton—Excavation—Until Aug. 6, by Bd. Dir. of Upper Scioto Drainage and Conservancy Dist., improving channel and building levee along Scioto River through here. Work involves 2,036,400 yd. dipper dredgwork, 6290 yd. submarine rock excav., 13,713 cu.yd. leveling waste bank and 12,736 cu.yd. removing waste bank. About $400,000. Morgan Eng. Co., City Natl. Bank Bldg., Dayton, engr. Noted May 22.

O., Toledo—Dredging—See "Miscellaneous."

Mich., Port Huron — Drainage — See "Streets & Roads."

Utah, Provo—Canal—Until July 10, by A. Badsgaard, secy., North Lake Shore D. D., building canal, involving 35,000 lin. ft. 12-36 in. drain tile, 35,000 ft. trenching and refilling, 9000 cu.yd. open canal work and 1500 cu.yd. levee or fill. Caldwell & Richards, Vermont Bldg., Salt Lake City, engrs.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★**N. C., Greenville**—Excavation—Pitt Co. let contract excavating 30 mi., involving 2,000,000 cu.yd. floating dredgework to drain about 35,000 acres, to Wilson Constr. Co., Wilson, $0.113 per cu.yd.

★**Ga., Gainesville** — Dredging — Comrs. Hall Co. D. D. No. 1, let contract for 5 mi. drainage ditches, involving 193,748 cu.yd. dredge work, to W. W. Williams, Monroe; $.010¾ per cu.yd.

★**La., Thornwell**—Canal—Thornwell D. D. No. 1, Lake Charles, let contract building drainage canal involving 190,000 cu.yd. excav., to Lake Arthur Dredging Co., Lake Arthur; $0.16½ per cu.yd. Noted June 12.

Industrial Works

PROPOSED WORK

R. I. Riverpoint—H. T. White soon lets contract building mill. About $50,000.

R. I., Westerly—Bilderbeck & Langdon, Inc., engrs., Barrows Bldg., New London, Conn., receives bids about July 20 building 1 story, 130 x 300 ft. factory and 1 story, 30 x 40 ft. power house, brick and concrete, rein.-con. flooring, concrete foundation, for Rhode Island Silk Co., Westerly. About $120,000.

Conn., Bridgeport—City plans to construct 2 story brick building at Seaside Park to include stables, garage, etc. About $50,000. E. G. Southey, 983 Broad St., archt.

Conn., Hartford—W. T. Marchant, archt., 36 Pearl St., preparing plans for 1 story, 50 x 150 ft. factory and 2 story, 37 x 75 ft. office, brick and mill construction, concrete foundation. About $40,000. Owner's name withheld.

Conn., New Haven—R. W. Foote, archt., 185 Church St., soon receives bids building 1 story, 60 x 220 ft. brick and steel garage, salesroom and service station, rein.-con. flooring, concrete foundation, on Bway., for N. B. Whitfield, 296 Elm St. About $50,000.

Conn., New Haven—M. Massari, 142 Bradley St., soon receives bids building 1 story, 55 x 86 ft. garage, with two 16 x 48 ft. ells, brick and concrete, rein.-con. flooring, concrete foundation, on Bradley St. About $25,000. R. W. Fabian, archt.

Conn., New Haven—P. Sellers, engr., 207 Orange St., soon receives bids building 2 story, 60 x 94 ft. brick and steel factory, concrete foundation, on Kensington St., for J. G. Missirian, 102 Kensington St. About $30,000.

Conn., Waterbury—City having plans prepared by C. Gilbert, archt., 244 Madison Ave., New York City, for 1 story elshaped, brick and concrete garage for Bd. Contg. & Supply. About $60,000. Noted Apr. 24.

Conn., Waterbury—F. A. Webster, engr., 51 West Main St., soon receives bids building 1 and 2 story, 40 x 166 ft. brick and mill construction factory, concrete foundation, on Madison Ave. and Baldwin St., for Simonsville Mfg. Co., Pearl Lake Rd. About $30,000.

N. Y., Albany—P. J. Gleason plans to build 2 story brick and concrete garage at 257 Hudson Ave. About $30,000.

N. Y., Buffalo—Atterbury Motor Car Co. had plans prepared by Colson & Hudson, archts., Dun Bldg., for extensive additions to plant on Elmwood and Hertel Aves. Plans include 100 x 540 ft. brick assembly building. Cost between $175,000 and $200,000. Address J. R. Spraker, genl. mgr.

N. Y., Buffalo—Fast Freight Forwarding Co., Brisbane Bldg., plans to build 8 story, 100 x 200 ft. rein.-con. warehouse, rein.-con. flooring, concrete foundation. About $500,000. Architect not selected.

N. Y., Buffalo—Stewart Motor Co., 425 East Delaware Ave., purchased Old Cyphers Incubator Plant, on Dewey Ave., and plans to alter and build additions to same. Cost between $150,000 and $175,000. Address R. P. Lentz, secy.

N. Y., Long Island City—H. Balcom, archt. and engr., 10 East 47th St., New York City, soon lets contract building 6 story, 132 x 200 ft. rein.-con. and steel factory, rein.-con. flooring, concrete foundation, on Nott, Manby, Anable and Mount Sts., here, for S. Blickman, 199 Lafayette St., New York City. About $400,000. Noted May 22.

N. Y., New York—Cudahy Packing Co., 454 West 14th St., having plans prepared altering and building 2 story rein.-con. and steel addition to packing plant, rein.-con. flooring, concrete foundation, at 611 West 34th St. About $50,000. Private plans.

N. Y., New York—J. Hoffman Brewing Co., 211 East 55th St., having plans prepared by A. Baylies, archt., 33 Bible House, converting 3 and 4 story brick and steel brewing plant, rein.-con. flooring, at 215 West 54th St., into garage. About $50,000.

N. Y., Ogdensburg—Massey Automobile Co. purchased Continental Bldg. and plans to alter and build addition to same. Cost $50,000. Address H. A. Massey, Ogdensburg.

N. Y., Syracuse—Onondaga Milk Producers' Co-operative Assn. soon receives bids building concrete and steel milk condensary and distributing plant. About $250,000. Address C. L. Amos, 1204 James St. Noted Feb. 27.

N. J., Paterson—F. J. Schwarz, archt., Colt Bldg., soon lets contract building 3 story, 52 x 64 ft., brick and mill construction factory, on Park St., for United Reed & Harness Co., 243 Franklin St. About $25,000.

Pa., Williamsport—J. K. Mosser Tannery Co., Newberry, soon receives bids building 6 story, 150 x 196 x 202 ft. rein.-con. and brick tannery, on Arch St., here. Architect not selected.

Md., Monkton—Monkton Roller Mills had plans revised for building 8 story, 40 x 140 ft. concrete flour mill, cost $90,000, and grain elevator, $55,000. O. E. McCoy, Mt. Washington, pres.

N. C., Clinton—Sampson Oil & Fertilizer Co. plans to build fertilizer factory. About $75,000. Amer. Machine & Mfg. Co., Greenville, S. C., archts.

N. C., Greensboro—Texas Oil Co. plans to build rein.-con. and brick warehouses and fire wall. About $75,000.

S. C., Orangeburg—City plans election to vote on $70,000 bonds to enlarge and add machinery to electric power plant. J. W. Hawes, Orangeburg, engr.

Fla., Jacksonville—Atlantic Coast Line R.R., Atlantic Coast Line Bldg., Wilmington, N. C., plans to build repair shop at Moncrief yards here. About $100,000. J. E. Willoughby, ch. engr.

La., Baton Rouge—Aluminum Ore Co., East St. Louis, Ill., purchased 227-acre site near here and plans to build refinery. Cost to exceed $1,000,000. C. E. Rudisill, c/o owner, engr.

La., New Orleans—C. B. Fox, Hibernia Bank Bldg., having plans prepared by C. W. Keenan, archt., building 5 story, 120 x 120 ft. mill on Baronne St.

O., Cincinnati—S. P. Nelson & Co., 202 West 4th St., receives bids about July 7, building 6 story, 50 x 92 ft., concrete and brick factory, on 4th and Elm Sts. About $50,000. G. C. Burroughs, 1302 Union Trust Bldg., archt.

O., Cleveland—Advertype Co., 1823 East 23rd St., plans to build 2 story, 80 x 115 ft., concrete, steel and brick publishing house. About $50,000. Architect not selected.

O., Cleveland—Apollo Tire & Rubber Co., 3962 East 93rd St., plans to build 2 story, 80 x 128 ft., concrete, steel and brick factory. About $30,000.

O., Cleveland—M. A. Bradley, Marion Bldg., plans to construct 6 story, 150 x 200 ft., concrete steel and brick manufacturing building, on Ontario and Fountain Sts. About $100,000. Architect not selected.

Industrial Works (Continued)

O., Cleveland—Chester Realty Co., Williamson Bldg., plans to build 2 story, 55 x 120 ft., concrete, steel and brick garage, rein.-con. flooring, on East 65th St. and Carnegie Ave. About $50,000. Architect not selected.

O., Cleveland—Cleveland Metal Products Co., 1141 Ivanhoe Rd., plans to build 1 story, 12 x 29 x 54 ft. storage building, cost $60,000; 1 story, 120 x 300 ft. addition to foundry, $75,000; 3 story, 72 x 266 ft. addition to machine shop, $75,000; 3 story, 60 x 90 ft. addition to assembling room, $120,000; all rein.-con., steel and brick. Architect not selected.

O., Cleveland—Crucible Steel Castings Co., Canel Rd. and Champlain Ave., plans to build 2 story, 125 x 300 ft., rein.-con., steel and brick factory, on Almira and Denison Aves. About $100,000. Architect not selected.

O., Cleveland—Grabler Mfg. Co., 6565 Bway. Ave., having plans prepared by Christian Schwartenberg & Gaede, archts., 1900 Euclid Ave., for 4 story, 89 x 110 ft., concrete, steel and brick addition to machine shop. About $80,000. Noted June 26.

O., Cleveland—H. E. Hedges, 428 Guardian Bldg., plans to build 1 story, 50 x 250 ft., concrete, steel and brick garage at 2040 East 105th St. About $60,000. Architect not selected.

O., Cleveland—Ideal Tire & Rubber Co., East 17th St. and Euclid Ave., plans to build 3 story, 100 x 200 ft., rein.-con., steel and brick addition to factory on Warner Rd. About $125,000. Architect not selected.

O., Cleveland—Peerless Motor Car Co., East 93rd St. and Quincy Ave., plans to build 1 story, 45 x 160 ft. addition to machine shop; 5 story, 40 x 120 ft. addition to assembly room; both concrete, steel and brick. About $25,000 and $40,000, respectively. Architect not selected.

O., Cleveland—Sixth City Realty Co., Guardian Bldg., plans to build 4 story, 167 x 370 ft., concrete, steel and brick garage, on East 6th St. and St. Clair Ave. About $1,300,000. Architect not selected.

O., Cleveland—Templin, Crockett, Bradley Co., 5700 Detroit Ave., soon receives bids building 3 story, 60 x 76 ft., rein-con., steel and brick addition to factory. About $50,000.

O., Cleveland—Theunor Norton Provision Co., West 63rd St. and Stock Ave., plans to build 3 story, 32 x 50 ft., concrete, steel and brick addition to factory. About $30,-000. Architect not selected.

O., Cleveland—United Motors Service Co., East 40th St. and Prospect Ave., plans to construct 2 story, 100 x 200 ft., rein.-con., steel and brick service and sales building. About $200,000.

O., Cleveland—Vitreous Enameling Co., 6800 Grant Ave., had plans prepared building 1 story, 90 x 120 ft., concrete, steel and brick factory, on East 71st St. and Grant Ave. About $35,000. S. Weil, pres.

O., Loudenville—Schenk & Williams, archts., Mutual Home Bldg., Dayton, soon receive bids building 2 story, 50 x 200 ft., rein.-con. and steel factory, rein.-con. flooring, concrete foundation, for Flexible Side Car Co. About $25,000.

O., Steubenville—Hartje Paper Co., 113 Wood St., Pittsburgh, Pa., having plans prepared for 2 story, rein.-con. and steel engine room, rein.-con. flooring, concrete foundation, here. About $50,000.

O., Toledo—B. R. Bldg. Co. plans to construct 3 story, 60 x 100 ft. service and auto display building on Adams and 10th Sts. About $75,000. T. Davies, 225 Ohio Bldg., secy. Architect not selected.

Mich., Detroit—Fisher Body Co., Oakland and Piquette Aves., plans to build 6 story, 165 x 338 ft., rein.-con. and brick factory, rein.-con. flooring, concrete foundation, on Theodore and Riopelle Sts. L. Kamper, Book Bldg., archt.

Mich., Detroit—A. Kahn, archt., Marquette Bldg., soon lets contract building 1 story, 241 x 446 ft. addition and 3 story, 80 x 225 ft. extension to factory, rein.-con. and steel, rein.-con., metal tile and wood block flooring, concrete foundation, on Bellevue and Concord Aves., for Packard Motor Car Co., West Grand Blvd.

Mich., Detroit—Solomon Bros., c/o W. H. Adams, engr., Vinton Bldg., having plans prepared for 6 story, rein.-con. terminal warehouse, covering 500,000 sq.ft. floor space, rein.-con. flooring, concrete foundation on Fort St., W., and Ferdinand St.

Ill., Chicago—Ilg Electric Ventilating Co., 154 Whiting St., having preliminary plans prepared by A. S. Alschuler, archt., 28 East Jackson St., for factory, main building to be 4 story, rein.-con., rein.-con. flooring, concrete foundation, with several smaller buildings on Crawford Ave. and George St. About $750,000. Noted Feb. 13.

Ill., Chicago—Mid City Cold Storage Co., c/o A. A. Salzman Eng. Co., engrs., 30 North La Salle St., plans to build 5 story, rein.-con. cold storage plant with 50,000 sq.ft. floor space. About $1,000,000.

Ill., Moline—Natl. Licorice Co., 2334 4th Ave., soon receives bids building 1 story, 116 x 136 ft. mill construction addition to mill, on 4th Ave. and 23rd St. About $30,-000. Whitsitt & Schulzki, 610 Peoples Bank Bldg., archts.

Wis., Sheboygan — Commercial Engraving Co., 101 North 8th St., plans to build 3 story, 60 x 170 ft. brick shop, brick foundation, on 8th St. About $150,000. Architect not selected.

Wis., Sheboygan — R. R. Jahn, archt., Betsy Ross Bldg., soon lets contract building 2 story, 50 x 110 ft., brick, rein.-con. and steel garage, rein.-con. flooring, brick foundation, on 8th and Niagara Sts., for Sell Bros., c/o C. Sell, 901-907 North 8th St. About $60,000. Noted June 19.

Minn., Minneapolis—G. N. Crawford, archt., 649 Plymouth Bldg., preparing plans for 3 story, 60 x 135 ft., stone and mill construction factory and warehouse. About $50,000. Owner's name withheld.

Mo., St. Joseph—Grant Motor Co., Frederick Ave., soon lets contract building 2 story, 120 x 140 ft., rein.-con., steel and brick garage, rein.-con. flooring, concrete foundation, on 10th and Edmond Sts. About $55,000. R. Meier, Lincoln Bldg., archt.

Tex., Dallas—Lockwood, Green & Co., engrs., Healey Bldg., Atlanta, Ga., soon lets contract building cotton mill for Miller Mfg. Co., 5112 Swiss Ave. About $200,000. Noted Mar. 6.

Ore., Marshfield—Eastern investors purchased site on Coos Bay, and having plans prepared for two 2 story, 60 x 200 ft. veneer plants, concrete or frame and concrete. About $30,000. B. Ostlind, Marshfield, acting representative.

Ore., Scofield—(Buxton P. O.)—Standard Box & Lumber Co. plans to rebuild sawmill at Tillamook branch of Southern Pacific R. R. to replace one recently destroyed by fire. Loss $225,000. S. B. Cobb, mgr.

Ore., Toledo—Fischer-Scordy Lumber Co. plans to rebuild mill recently destroyed by fire. About $50,000. Address A. Fischer, Corvallis, stockholder.

Cal., Long Beach—Long Beach Transfer & Warehouse Co., having plans prepared by W. H. Austin, archt., 222 1st Natl Bank Bldg., for 4 story, 60 x 118 ft., rein.-con. and steel storage building and 1 story brick garage, on 15th St. and California Ave.

Cal., Los Angeles—International Harvester Co., 606 South Michigan Ave., Chicago, purchased site here and plans to build 6 story, rein.-con. warehouse and assembling plant. About $250,000.

Cal., Modesto—M. Maddox had plans prepared by A. Mauzerette, archt., Home Realty Bldg., for 2 story, rein. con. garage and shop, concrete foundation, on 10th and G Sts. About $50,000.

Cal., Sacramento—Bd. Supervs. Sacramento Co. having plans prepared by R. A. Harold, archt., Forum Bldg., for 2 story, rein-con. and hollow tile service building and rein.-con. power house, concrete foundation, on County Hospital grounds. About $100,000.

Cal., Sacramento—California Rice Milling Co., 1st Natl. Bank Bldg., San Francisco, having plans prepared for 3 story, rein.-con. warehouse, here. About $100,000.

Cal., Sacramento—G. Stam plans to build 320 x 340 ft. warehouse near wharf on Y St.

Cal., San Diego—See "Miscellaneous."

Cal., San Diego—San Diego Ice & Cold Storage Co., 110 9th St., having plans prepared for 4 story, rein.-con. cold storage plant to be erected on 100 x 200 ft. site on 8th St. and Imperial Ave. About $25,-000.

Cal., San Francisco—C. Winters having plans prepared by MacDonald & McKahn, archts., Rialto Bldg., for 5 story, rein-con. grocery building on Spear and Folsom Sts. About $200,000. Hass Bros., Sacramento and Davis Sts., lessee.

N. S., Sydney—C. R. Brown, engr., Moncton, soon receives bids building coaling plant and sand house here, for Canadian Natl. Rys., Ottawa. About $80,000.

Ont., Oshawa—Gen. Motors Co. of Canada, Walkerville, plans to build 4 story, 80 x 400 ft. rein.-con. and brick factory, concrete foundation on King St., here. About $175,000. R. S. McLaughlin, Walkerville, engr.

Ont., Strathroy—R. Pincombe plans to build brick flour mill, here. About $[illegible]. Owner preparing plans.

Ont., Toronto—Northern Aluminum Co., 158 Sterling Rd., plans to build 8 story, 60 x 280 ft. rein.-con. factory, concrete foundation. About $450,000. C. A. P. Turner, 38 South Dearborn St., Chicago, engr.

BIDS DESIRED

R. I., Providence—N. Hickey, 246 Thurbers Ave., receiving bids building 1 story, 50 x 200 ft. mill construction and brick garage and service station, concrete flooring, concrete foundation, on Thurbers Ave. and Eddy St. About $30,000. Private plans.

N. Y., New York—Until July 7, by G. M. McCabe, archt., 96 5th Ave., building 2 story, 99 x 188 ft. brick and steel garage, rein.-con. flooring, concrete foundation, at 388-394 11th Ave., for H. S. Coffin, 44 Pine St. About $100,000. Noted May 29.

N. Y., Thiells—See "Buildings."

Pa., Pittsburgh—T. Pringle, archt., 419 Oliver Ave., receiving bids building 2 story, 50 x 120 ft., rein.-con. and brick garage, rein.-con. flooring, concrete foundation, on Baum Blvd., for A. W. Mellan, to be occupied by Keystone Buick Co. About $35,000.

Wis., Fond du Lac—Until July 8, by H. J. Esser, archt., Camp Bldg., Milwaukee, building 4 story, 55 x 275 ft. brick and mill construction factory, for Nunn, Bush & Weldon Shoe Co., 1110 5th St., Milwaukee. About $150,000. Noted June 19.

Wis., Milwaukee—Pawling & Harnischfeger, 38th St. and National Ave., and Kirchhoff & Rose, archts., 221 Grand Ave., receiving bids building 1 story, brick and steel factory addition, concrete foundation. About $100,000.

Wis., Sheboygan—Until July 7, by Juul & Smith, archts., Imig. Bldg., building 4 story, 60 x 150 ft., brick, rein.-con. and steel factory, rein.-con. flooring, brick foundation on 14th St. and Kentucky Ave., for Natl. Box & Novelty Co., Pennsylvania Ave. About $60,000. Noted June 19.

Kan., Wichita—Until July 8, by O. J. Motor Co., building 5 story, 64 x 136 ft., rein.-con., steel and brick warehouse, rein.-con. flooring, concrete foundation. About $110,000. L. Schmidt, 121 North Market St., Wichita, archt., and H. Noble, Kansas City, Mo., engr.

Neb., Omaha—Until July 20, by J. Latenser & Sons, archts., 632 Bee Bldg., for 1 story, 44 x 110 ft. rein.-con. and brick boiler house, on 42nd St. and Dewey Ave. About $75,000.

Ont., London—Until July 15, by Canadian Oil Co., 2 Strachan Ave., Toronto, building 3 story, 40 x 100 ft., steel and brick warehouse, concrete foundation, on Main St., here. About $50,000.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★Me., Sanford—Sanford Mills Co. let contract building 1 story, 122 x 270 ft. rein-con. addition to weave shed, rein.-con flooring, concrete foundation, to Turner Constr. Co., 45 Milk St., Boston, Mass.

★Mass., Boston—A. S. Knight, et al, 309 Sears Bldg., let contract building 1 story, 90 x 233 ft. rein.-con. garage and service station, rein.-con. flooring, concrete foundation, on West Dedham St. to Adams Pond Co., Dorchester. About $75,000.

★Mass., Fall River—D. J. Dennis, 362 5th St., let contract building 1 story, 80 x 115 ft., brick and mill construction garage, rein.-con. flooring, on 6th St., to J. H. Donnelly, Worthington St. About $25,000.

★Mass., Gardner—Lee & Hewett, archts and engrs., 1123 Bway., New York City, let contract, to W. F. Kearns Co., Cambridgeport, building two 4 story, brick additions to factory, concrete foundation, for Heywood Bros. and Wakefield Co., 206 Central St. Noted May 22.

Industrial Works (Continued)

★**Mass., North Bellingham**—Bellingham Woolen Co. let contract building 3 story, 50 x 120 ft. brick and mill construction storehouse, to Eastern Constr. Co., 660 Winter St., Woonsocket, R. I. About $40,000.

★**Mass., Springfield**—A. H. Phillips, Inc., Napier St., will build **2 story rein.-con. and** brick addition to warehouse, rein.-con. flooring, concrete **foundation. About $25,-**000. Private plans. **Work will be done by** day labor.

★**Mass., Springfield**—J. Weisenberg, 112 Everet St., let contract building 1 story, 105 x 143 ft., brick, concrete and steel garage, rein.-con. flooring, concrete foundation, on Howard St., to **P. T. Curtis, 117 Jefferson** Ave. About $40,000.

★**R. I., Central Falls** (Pawtucket P. O.)—Hemphill Mfg. Co., 131 Clay St., let contract building 2 story, 38 x 153 ft. and 2 story, 25 x 48 ft. el-shaped factory, 1 story, 38 x 189 ft. forge shop, brick and timber, concrete foundation, **on Clay St., to Humes** Constr. Co., 76 Dorrance St., Providence. About $65,000.

★**R. I., Olneyville**—**Paragon Worsted Co.** let contract building 2 story, 60 x 85 ft. brick and mill construction addition to plant, to E. Turgeon, 86 Weybosset St., Providence. About $25,000.

★**R. I., Providence**—Atlantic Refining Co., 503 Turk Heads Bldg., let contract building 1 story, 40 x 100 ft. storehouse, 1 story, 30 x 40 garage and 14 x 14 ft. service station, brick, steel and concrete, rein.-con. flooring, concrete foundation, on Elmwood Ave., to Metzger & Fisher Co., Otis Bldg., Phila., Pa. About $25,000.

★**R. I., Providence**—Texas Co., Allens Ave., will build 4 story 91 x 97 ft. 36 x 61 ft. and 37 x 54 ft. brick, steel and rein.-con. storehouse, rein-con. flooring, concrete foundation. Work will be done by day labor.

★**Conn., New London** — Bilderbeck & Langdon, Inc., archts. and engrs., 253 State St., let contract to J. H. Grozier Co., 721 Main St., Hartford, building 2 story, 80 x 101 ft. rein.-con. garage, rein.-con. flooring, concrete foundation, on Main St., here, for M. A. Avery, 176 Main St. About $50,000. Noted Apr. 10.

★**Conn., Winnepauk** (Norwalk P. O.)—Clover Mfg. Co., Day St., South Norwalk, let contract building **1 story, 60 x 465 ft.,** 1 story, 90 x 300 ft. and 1 story, 40 x 60 ft. brick, steel and concrete factory, rein.-con. flooring, concrete foundation, to Austin Co., 217 Bway., New York City. **About $200,000.**

★**N. Y., Brooklyn** — Moller & Shuman, Marcy Ave., let contract building 2 story brick and steel factory, **rein.-con. flooring,** concrete foundation, on **Gerry and Wall-**about Sts., to P. Guthy, 926 Bway., New York City. About $80,000. **Noted May 8.**

★**N. Y., Brooklyn**—A. Paolello, 810 4th Ave., will build 1 story, 22 x 41 x 76 x 102 ft. brick and steel garage, rein.-con. flooring, concrete foundation, on 27th St. and 4th Ave. About $45,000. Work will be done by day labor. Noted Mar. 6.

★**N. Y., Brooklyn**—W. H. Reid, 21 Willoughby Ave., will build 5 story, 40 x 90 ft. brick and steel warehouse and salesroom, rein.-con. flooring, concrete foundation, on Pearl St. near Willoughby Ave. About $50,000. Work will be done by day labor.

★**N. Y., Buffalo**—R. C. Fayfield, archt., Iroquois Bldg., let contract, to Turner Constr. Co., Prudential Bldg., for 6 story, 50 x 100 ft. rein.-con. warehouse, rein.-con. flooring, concrete piling foundation, for Robertson Cataract Co., 151 West Montauk St. About $80,000. Noted May 29.

★**N. Y., New York** — Anheuser-Busch Brewing Co., 9th and Pestalozzi Sts., St. Louis, Mo., let contract altering 5 story brick, concrete and steel warehouse, rein.-con. flooring, on 11th Ave. and 36th St., here, to C. A. Cowan, 30 East 42nd St. About $30,000.

★**N. Y., New York**—C. Bianci, 54 Mt. Morris Park West, will alter 3 story brick and steel factory, rein.-con. flooring. About $35,000. Work will be done by day labor.

★**N. Y., New York**—C. Dahlen, 341 East 142nd St., will build 2 story, 50 x 95 ft. brick and steel garage, rein.-con. flooring, concrete foundation, on East 173rd St. About $25,000. Work will be done by day labor.

★**N. Y., New York**—Gould Constr. Co., 233 Bway., will build 1 story, 100 x 175 ft. brick and steel machine shop, rein-con. flooring, concrete foundation, on Grand St. About $25,000. Private plans. Work will be done by day labor.

★**N. Y., New York**—A. Guidone, 5 Vanderbilt Ave., will build 1 story, 100 x 100 ft. brick and steel garage, rein.-con flooring, concrete foundation, on Harlem River Terrace and Fordham Rd. About $25,000. Work will be done by day labor.

★**N. Y., New York**—F. P. Vacarelli, 1475 Bway., will build 1 story, 60 x 155 ft brick and steel garage, rein.-con. flooring concrete foundation, on Quarry Rd. and 3rd Ave. About $25,000. Work will be done by day labor.

★**N. Y., New York**—W. J. Wilgin, 165 Bway., will build 1 story, 75 x 100 ft. brick and steel garage, rein.-con. flooring, concrete foundation, on 149th St. and Park Ave. About $155,000. Work will be done by day labor.

N. Y., Potsdam—Education Dept., Potsdam Normal School, received bids June 26, building boiler house, general contract from H. M. Weed, New York City, $42,300, Curran & Swarthout, Rochester, $43,085; heating, **from H. J. Brandeles Co., 435 Lafay-**ette St., Utica, $36,000, H. C. Peterson, 20 Oneida St., Utica, $47,500, W. F. Devendorf & Co., 470 Court St., Rochester, $41,-985. Noted June 19.

★**N. Y., S. I., Port Richmond**—V. Perosi, 275 Morningstar Rd., will build 1 story, 50 x 105 ft., rein.-con. and steel garage, rein.-con. flooring, concrete foundation, on Prospect St. and Morningstar Rd. About $25,-000. Work will be done by day labor.

★**N. Y., Yonkers**—Federal Sugar Refining Co., 91 Wall St., New York City, let contract building rein.-con. and steel warehouse, rein.-con. flooring, concrete foundation here, to Westinghouse, Church, Kerr, 37 Wall St., New York City. About $200,-000. Cost plus percentage basis.

★**N. J., Elizabeth**—Singer Mfg. Co. Elizabethport, let contract building 3 and 4 story, 176 x 258 ft. foundry, to Turner Constr. Co., 244 Madison Ave., New York City.

★**Pa., Scranton**—Lockwood, Greene & Co., archts., 101 Park Ave., New York City, let contract to Turner Constr. Co., 244 Madison Ave., New York City, building 3 story, 72 x 140 ft., rein.-con. and steel factory, rein.-con. flooring, concrete foundation, for Scranton Lace Co., Glenn and Meyler Sts. About $80,000. Noted June 8.

★**W. Va., Huntington**—Empire Furniture Co. let contract building 3 story, 60 x 180 ft. brick addition to factory, to C. H. Smith, Robson-Prichard Bldg. About $40,000.

★**O., Cleveland** — Euclid Chester Co., Guardian Bldg., let contract building 2 story, 100 x 112 ft., concrete, steel and brick warehouse, at 2900 Chester Ave., to C. Curtiss Co., Guardian Bldg. About $100,000. Noted June 26.

★**O., Cleveland** — **Foster Bolt & Nut** Mchy. Co., 3556 East 72nd St., let contract building 2 story, 77 x 123 ft., concrete, steel and brick factory, to McMillan Co., 1794 East 55th St. About $40,000. Noted June 26.

★**O., Cleveland**—Natl. Lamp Assn. of Genl. Electric Co., Nela Park, let contract building 4 story, 112 x 300 ft., rein.-con., steel and brick addition to factory, to S. W. Emerson, 1900 Euclid Ave., cost $250,000; 1 story, 63 x 194 ft., concrete, steel and brick garage, at 1141 East 152nd St., to Heller Bros. Furnace St., Youngstown, $50,000. Noted May 1.

★**O., Dayton**—Borchers Automobile Co., 6th and Canal Sts., let contract building 4 story, rein.-con. garage and salesroom, rein.-con. flooring, concrete foundation, on South Main and Warren Sts., to Frank Hill Smith Co., Inc., East 3rd St. About $175,000. Noted May 15.

★**O., Dayton**—Jennings Auto Sales Co., 32 West 2nd St., let contract building 3 story, 115 x 120 ft., rein.-con. garage and salesroom, rein.-con. flooring, concrete foundation, on Main and Apple Sts., to J. Hoolihan, 524 River St. About $85,000.

★**O., Dayton**—Stomps Auto Sales Co., South Main St., let contract building 4 story, 60 x 150 ft., rein.-con. garage and salesroom, rein.-con. flooring, concrete foundation, to Industrial Bldg. Co., 757 Reibold Bldg. About $60,000. Noted June 26 under "Buildings."

★**O., Springfield**—Crowell Publishing Co., High and Wittenberg Sts., let contract building 5 story, 66 x 180 ft., rein.-con. and steel printing plant, rein-con. flooring, concrete foundation, on West High St., to Frank Hill Smith Co., Inc., West 3rd St., Dayton. About $100,000. Noted June 19.

★**O., Springfield**—J. Leffel & Co., Lagonda Ave., let contract building 1 story, 85 x 1020 ft. machine shop, 60 x 110 ft. foundry, 60 x 140 ft. pattern shop, 50 x 140 ft. pattern storage building, 50 x 105 ft. power plant and 50 x 10- ft. coal bunkers, all rein.-con., steel and brick, wood block flooring, concrete foundation, on East St., to Concrete Steel Constr. Co., 415 Mitchell Bldg. Cost, including equipment, $500,000.

★**Ind., Indianapolis**—Nordyke & Marmon Co., 250 North Meridian St., let contract building 5 story, 80 x 600 ft. rein.-con. factory, West Morris St. to Bedford, Stone & Constr. Co., 810 Fletcher Savings & Trust Bldg.; 1 story, 100 x 800 ft. rein.-con. and steel factory, Morris St., to H. J. Ferguson Co., 6523 Euclid Ave., Cleveland.

★**Mich., Detroit**—Cuyahoga Spring Co., Berea Rd., let contract building 2 story, 80 x 146 ft. factory, to Austin Co., 16,112 Euclid Ave., Cleveland, $57,000.

★**Mich., Detroit**—Detroit Seamless Steel Tube Co., 841 West Jefferson Ave., let contract building 2 units of factory, each 1 story, 90 x 550 ft.; also 70 x 100 ft. heating plant, concrete, brick and steel, concrete foundation, on Wyoming and Warren Aves., to A. A. Albrecht & Co., 1130 Penobscot Bldg. About $1,700,000. Noted Apr. 17.

★**Mich., Mt. Pleasant**—Transport Truck Co. let contract building 1 story, 160 x 330 ft., brick and steel assembling plant, concrete foundation, to Stoolman Constr. Co., Champaign, Ill. About $175,000. Noted May 22.

... Ill., Chicago—Anderson Bros. Storage Co., 3131 Sheffield Ave., let contract building 5 story, 45 x 115 ft. rein.-con. and brick warehouse, rein.con. flooring, concrete foundation, at 3135 Sheffield Ave., to O. W. Rosenthal Co., 80 East Jackson Blvd. About $50,000.

★**Minn., St. Paul**—Griggs, Cooper & Co. 3rd St. and Bway., let contract building 5 story, 150 x 220 ft. factory, to C. Skooglum, 502 Ryan Annex. Cost between $350,000 and $500,000.

★**Mo., Kansas City**—Natl. Cloak and Suit Co., 24th St., New York City, let contract building 12 story, 100 x 200 ft. and 120 x 300 ft. rein.-con. and steel factory, rein.-con. flooring, concrete foundation here, to Wells Bros., 914 Monadnock Bldg., Chicago. About $2,500,000.

★**Mo., St. Louis**—St. Louis Mfg. Corp., 5401 Bulwer St., let contract building 2 story, 96 x 150 ft., concrete and brick power house, concrete foundation, at 5405-11 Natural Bridge Ave., to A. H. Haeseler Bldg. and Constr. Co., Wainwright Bldg. About $125,000.

★**Colo., Denver**—Spray Tea & Coffee Co., 639 15th St., let contract building 1 story, 50 x 125 ft. rein-con., factory, rein.-con. floor and foundation, to C. S. Lambie Co., 312 Tramway Bldg. About $28,000.

★**Cal., Hanford**—California Peach Growers Inc., Malaga St., Fresno, let contract building 2 story, 90 x 250 ft., rein. con. packing plant, concrete foundation, to R. Pedersen, 446 Clark St., Fresno. Cost, including equipment, $100,000. Noted Apr. 24.

★**Cal., Lemon**—G. C. Power let contract building 1 story, 140 x 250 ft., concrete and frame packing house, to include boiler house, workmen's quarters, etc., to W. Slater Co., 2314 Santa Fe Ave., Los Angeles. About $70,000, cost plus percentage basis.

★**Cal., San Francisco**—Sharon Estate Co., Sharon Bldg., will build 1 story, 150 x 200 ft., brick foundry and machine shop, on 4th and Bryant Sts. About $40,000. Krenz Cooper & Brass Wks., c/o G. W. Kelham, archt., Sharon Bldg., lessee. Work will be done by day labor.

★**Cal., Vernon**—California Provision Co. let contract constructing 2 story, 88 x 142 ft. packing house and refrigeration building, 20 x 32 ft. boiler house, 32 x 32 ft. office, loading docks, etc., all timber, concrete foundations, to C. B. Harp, 1102 Baker-Detwiler Bldg., Los Angeles. About $50,000.

★**Que., Sherbrooke**—Dominion Carriage Co., Ltd., let contract building 3 story, 60 x 75 ft. brick, steel and concrete factory,

Industrial Works (Continued)
concrete foundation, on St. Agnes St., to Graize Chauvin, 98 Darling St., Montreal. About $50,000. Noted May 8.

★**Que., Three Rivers**—Three Rivers Cold Storage Co. let contract building concrete and steel cold storage plant, to Arsenault & Plamondon, 70 St. James St., Montreal. About $75,000.

★**B. C., Prince Rupert**—See "Miscellaneous."

Buildings

PROPOSED WORK

Mass., Boston—Bank—State St. Trust Co., 33 State St., having plans prepared by Richardson, Barott & Richardson, archts., 8 Beacon St., for rein.-con. and steel, rein.-con. flooring, concrete foundation, on State and Washington Sts.

Mass., Springfield—Synagogue — Congregation Kadimah, 25 Lenox St., plans to build 1 story stone and brick, on Piney Pl. and Dickinson St. About $50,000. M. Ehrlich, chn. Architect not selected.

Conn., Bridgeport—Church—Grace Methodist Episcopal Society, Fairfield and Clinton Aves., plans to build on Clinton Ave. About $60,000. Architect not selected.

Conn., Bridgeport—School—St. Patrick's Roman Catholic Society, 865 North Ave., plans to build fireproof school on Wells St. About $75,000. J. C. Lynch, pastor. Architect not selected.

Conn., Bridgeport—School, Convent, etc.—St. Cyril & Methodius Roman Catholic congregation, Church St., plans to build 16 room school and assembly hall, 16 room convent and brick rectory, all fireproof. About $250,000. J. Panik, pastor. Architect not selected.

Conn., Bristol—Business—M. Volkenheim, 458 Main St., New Britain, having plans prepared by C. C. Palmer, archt., 272 Main St., New Britain, for 3 story, 50 x 101 ft. brick and concrete, brick and concrete foundation, on Main St., here. About $50,000.

Conn., Hartford—Office—See "Industrial Works."

Conn., Middletown—School—City plans to build brick addition to Johnson School on Green St. About $60,000. E. B. Sellew, supt. schools. Architect not selected.

Conn., Norwalk—Hotel—G. F. Shepard, archt., 14 Kilby St., Boston, soon receives bids altering and converting Royal James Hotel on Wall St. into hotel and business building, brick, rein.-con. and steel, rein.-con. flooring, concrete foundation, for Norwalk Realty & Impvt. Co., Ann St., South Norwalk. About $125,000. Noted Feb. 27.

Conn., Waterbury—Bank—Citizens Natl. Bank, West Main St., purchased site on Leavenworth St. and Kendrick Ave. and plans to build new bank. Architect not selected.

N. Y., Brooklyn—Exchange—McKenzie, Voorhees & Gmelin, archts. and engrs., 1123 Bway., New York City, soon let contract building 4 story, 60 x 125 ft. brick and steel brick foundation, on 14th Ave., here, for New York Telephone Co., 15 Dey St., New York City. About $200,000. Noted June 19.

N. Y., Buffalo—Theatre—H. L. Spaun, archt., Mutual Life Bldg., soon receives bids building 1 story, 57 x 150 ft. brick, steel and rein.-con., rein.-con. flooring, concrete foundation, on Triangle St. for G. C. Hall and G. F. Hanny, 2228 Seneca St. About $50,000.

N. Y., Malone—Gymnasium—Village Bd. soon receives bids building brick and concrete gymnasium. About $80,000. G. T. Whipple, secy.

N. Y., Manlius—Barracks—St. John's School, recently incorporated with $650,000 capital stock, soon receives bids constructing new barrack building. Cost, $200,000. Address W. P. Hitchcock, Central Bldg., Syracuse.

N. Y., New York—Church—5th Ave. Baptist congregation having plans prepared by H. C. Pelton & Allen & Collen, archts. and engrs., 35 West 39th St., for 3 story, 80 x 98 ft. brick and steel, brick foundation, on 64th St. and Park Ave. About $400,000.

N. Y., New York—Nurses' Home—St. Mary's Free Hospital, 407 West 34th St., soon receives bids building 5 story, 45 x 50 x 100 ft. brick and steel, brick foundation. About $75,000. C. P. H. Gilbert, 1123 Bway., archt. and engr. Noted Apr. 10.

N. Y., New York—Office—E. Margolies, 19 East 33rd St., having plans prepared by H. J. Krapp, archt., 114 East 16th St., for 16 story, 56 x 150 ft., brick and steel, at 309-311 5th Ave. About $450,000.

N. Y., New York—Theatre—A. Lewisohn, 61 Bway., having plans prepared by G. M Pollard, archt., 347 5th Ave., for 1 story, 83 x 176 ft. brick and steel, brick foundation, at 4023 Bway. About $120,000.

N. J., Bayonne—Memorial—City plans to construct memorial building to soldiers and sailors of late war. About $500,000.

N. J., Hackettstown — Church — G. I. Lovatt, archt., 416 Walnut St., Phila., soon lets contract building 2 story, 22 x 30 ft., concrete and stone, for Church of Assumption, here.

Pa., Phila.—Bank—Union Natl. Bank, 3rd and Arch Sts., having plans prepared by J. T. Brugger, archt., 5610 North Mascher St., building 2 story, 50 x 75 ft. brick, bronze and marble.

N. J., Paterson—School—Bd. Educ. plans to build school on Park Ave. About $800,000. H. T. Stephens & Co., 152 Market St., archts.

Pa., Phila.—Sales and Supply—C. Kahn, 309 Morris Bldg., soon receives bids building 3 story, 25 x 200 ft. stone and brick, at 3318 North Broad St. L. B. Rothchild, 1225 Sansom St., archt.

Va., Lexington—Alumni Quarters—Virginia Military Institute Alumni Assn. plans to build alumni quarters on university grounds. About $100,000. M. B. Coarse, secy. and treas. Architect not selected.

Va., Richmond—Bank—First Natl. Bank of Richmond, 9th and Main Sts., having plans prepared by F. A. Bossom, archt., 366 5th Ave., New York City, for 4 story, brick, steel and stone, brick foundation. About $75,000.

N. C., Charlotte—Store—J. B. Efird, 47 East Trade St., soon receives bids building store. About $500,000.

N. C., Nashville—Courthouse—Nash Co. plans to build 2 story brick on Washington St. About $75,000.

S. C., Columbia—Hospital—Baptist Hospital, 1519 Marion St., plans to build hospital on Marion St. About $200,000. W. M. Whitesides, supt. Engineer and architect not selected.

S. C., Columbia — Memorial — Memorial Comn. plan to build campus of University of South Carolina. About $500,000. R. A. Cooper, chn. Engineer and architect not selected.

S. C., Columbia—Theater—Capitol Theater Co. plans to build 2 story, 54 x 208 ft. on Main St. About $100,000.

S. C., Orangeburg — Memorial — State Colored College plans to construct memorial building on campus of State Colored College, here. R. S. Wilkerson, pres. Engineer and architect not selectd.

O., Alexandria—High School—Bd. Educ. plans to build 2 story, 50 x 80 ft., fireproof. About $60,000. F. S. Rusk, Brunson Bldg., Columbus, archt.

O., Bucyrus—Schools—Bd. Educ. plans to build one 3 story, 90 x 250 ft. and one 2 story, 60 x 200 ft., rein.-con. and brick. Total cost, $300,000. McLaughlin & Hulsken, Savings Bldg., Lima, archts.

O., Cincinnati—Theatre and Store—Ascher Bros., 220 South State St., Chicago, had plans prepared by H. L. Newhouse, archt., 4630 Prairie Ave., Chicago, for 1 and 2 story, 100 x 135 ft., rein.-con. and brick, rein.-con. flooring, concrete foundation, on 7th and Vine Sts., here. About $250,000.

O., Cleveland—Bank—Cleveland Trust Co., East 9th St. and Euclid Ave., soon receives bids building 3 story, 40 x 100 ft., steel and brick addition, on East 105th St. and Euclid Ave. About $50,000. G. B. Post & Co., 1109 Schofield Bldg., archts. Noted May 15.

O., Cleveland—Bank and Office—Volea Bldg. & Loan Assn., 5733 Bway. Ave., having plans prepared by F. Hronek, archt., 3655 East 31st St., for 2 story, 40 x 96 ft., concrete, steel and brick, on Bway. and Portage Aves. About $50,000.

O., Cleveland—Club House and Gymnasium—Ohio Athletic Assn., 819 Guardian Bldg., plans to build 3-8 story, 200 x 400 ft., rein.-con., steel and brick. About $500,000. Architect not selected.

O., Cleveland — Commercial — Huron Impvt. Co., East 12th St. and Huron Rd., plans to build 6 story, 100 x 240 ft., concrete, steel and brick. About $150,000. Architect not selected.

O., Cleveland—Hospital—Cuyahoga Co. Memorial Assn., Court House, having plans prepared by W. S. Lougee, archt., 500 Marshall Bldg., for 5 story, 150 x 200 ft., concrete, steel and brick, on West 14th St. and Fairchild Ave. About $500,000.

O., Cleveland—Office—Cleveland Metal Products Co., 1141 Ivanhoe Rd., plans to build 1 story, 60 x 200 ft., concrete, steel and brick addition, at 1141 Ivanhoe Rd. About $50,000. Architect not selected.

O., Cleveland—Office—Lakewood Eng. Co., West 117th St. and Berea Rd., plans to build 1 story, 87 x 150 ft., concrete, steel and brick addition. About $75,000.

O., Cleveland—Temple—Temple congregation, East 55th St. and Central Ave., plans to build 2 story, 100 x 200 ft., concrete, steel and brick, on West 107th St. and Wade Park. About $500,000. Hubbell & Benes, 4500 Euclid Ave., archts.

O., Cleveland—Theatre—Haddam Impt. Co., Hippodrome Bldg., plans to build 8 story, 156 x 239 ft., concrete, steel and brick, on East 105th St. and Euclid Ave. About $400,000. Architect not selected.

O., Fairpoint—School—Bd. Educ. plans to build 2 story, 50 x 80 ft., brick. About $65,000. F. S. Rusk, Brunson Bldg., Columbus, archt.

O., Middletown—Hotel—Company being organized to build hotel. About $250,000. F. S. Hughes, Dayton, archt. Address F. Howell, 957 Reibold Annex, Dayton, in charge of preliminary organization.

O., Springfield—School—Bd. Educ. plans to build 3 story, rein.-con. and brick, rein.-con. flooring, concrete foundation, in Ridgewood Addition. About $60,000. Hall & Lethly, Springfield, archts.

Ind., Hammond—Theatre and Hotel—Gumbiner Bros., c/o Rapp & Rapp, archts., State-Lake Bldg., Chicago, having plans prepared for 6 story, 150 x 210 ft. brick and rein.-con., rein.-con. flooring, concrete foundation, on Homan and State Sts. here. About $500,000.

Mich., Detroit — Mercantile — Bingham-White Co., Fort St. and Junction Ave., soon lets contract building 4 story, 75 x 100 ft. brick and steel addition. About $75,000. Varney & Varney, 307 Palmer Bldg., archts.

Mich., Detroit—Service Grace Hospital, 277 West Grand Blvd., soon lets contract building 3 story, 35 x 70 ft., concrete, brick and steel, rein.-con. flooring, concrete foundation, in connection with hospital. A. Kahn, Marquette Bldg., archt. Noted Jan. 23.

Mich., Detroit—Theatre and Stores—C. H. Crane and E. G. Kiehler, archts., 2327 Dime Bank Bldg., soon let contract building 2 story, 80 x 230 ft., rein.-con., brick and steel, rein.-con. flooring, concrete foundation, on Michigan and General Aves., for H. Kramer & Sons, 1697 Gratiot Ave. About $250,000.

Mich., Flint—Church—St. Mathew's congregation plans to build 1 story, rein.-con. and brick, rein.-con. flooring, on Beach St. About $150,000. Van Leyen, Schilling & Keough, 1115 Union Trust Bldg., Detroit, archts.

Mich., Wyandotte—Theatre and Office—B. C. Wetzel & Co., archts., 2317 Dime Bank Bldg., Detroit, preparing plans for 2 story, brick and steel, concrete foundation, on Biddle Ave. About $180,000. Owner's name withheld.

Ill., Chicago—Hotel—Bryn Mawr Hotel Co., c/o W. W. Ahlschlager, archt., 111 West Washington St., having plans prepared for 9 story, 100 x 150 ft. rein.-con. rein.-con. flooring, concrete foundation, on Bryn Mawr and Kenmore Aves. About $1,250,000.

Ill., Moline — Church — Sacred Heart Parish, 419 East 11th St., having plans prepared by Davis & Davis, archts., 64 East Van Buren St., Chicago, for 1 story, 81 x 140 ft. brick and steel, concrete foundation. About $75,000. Noted May 1.

Minn., Austin—High School—Independent School Dist. No. 29 voted $450,000 bonds to build high school. J. E. Grippen, secy.

Minn., Minneapolis—Bank and Office—G. N. Crawford, archt., 649 Plymouth Bldg., preparing plans for 7 story, 66 x 120 ft. About $225,000. Owner's name withheld.

Minn., Minneapolis—Bank and Office—G. N. Crawford, archt., 649 Plymouth Bldg., preparing plans for 3 story, 50 x 60 ft., stone. About $100,000. Owner's name withheld.

Minn., Northfield—Hall—St. Olaf College had plans prepared by N. E. Mohn, archt., 596 Endicott Bldg., St. Paul, for 3 story, 76 x 200 ft., science hall, rein.-con., brick and steel, rein.-con. flooring, concrete foundation, on campus. About $200,000. Noted Apr. 24.

Buildings (Continued)

Minn., Owatonna—Club—Country Club, c/o Jacobson & Jacobson, archts., Owatonna, having preliminary plans prepared for 1 story, 60 x 140 ft. About $62,000. F Tustison, Auditorium Bldg., Minneapolis, engr.

Kan., Eldorado—School—Bd. Educ. having plans prepared by W. H. Simon, archt., Eldorado, for 2 story, 100 x 170 ft., rein.-con. and brick, rein.-con. flooring, concrete foundation. About $175,000.

Kan., Leavenworth — City Hall — City election July 16, to vote on $400,000 bonds to build city hall and convention auditorium. Architect not selected.

Kan., Marysville—Theatre—Turner Theatre Co. soon receives bids building 2 story, 50 x 132 ft., brick and stone, rein.-con. flooring, concrete foundation. About $53,-000. C. Boller & Bro., Kansas City, Mo., archts.

Kan., Salina—Temple—F. & A. M. Lodge plans to build 3 story temple. About $750,000. W. T. Schmidt, Oklahoma, Okla., archt.

Kan., Wichita—Academy—Sisters of St. Joseph having plans prepared by E. Forsblom, archt., 501 Michigan Bldg., for 3 story, rein.-con. and brick addition to Mt. Carmel Academy, rein.-con. flooring, concrete foundation. About $75,000.

Kan., Wichita—School—Bd. Educ. having plans prepared by L. Schmidt, archt., 121 North Market St., building 2 story, rein.-con. and brick, rein.-con. flooring, concrete foundation, to be known as Roosevelt Intermediate School. About $180,000.

Mont., Choteau—High School—Teton Co. election Sept. 2 to vote on $100,000 bonds to build high school. M. A. O'Neil, co. clk.

Mo., Fayette—Hospital—Howard Co. election Sept. 20, to vote on $75,000 bonds to build here. I. T. St. Clair, co. clk.

Mo., Kirksville—Temple—C. Banks, chn. bldg. comn., receives bids in July or August building 3 story, on Harrison and High Sts., for Masonic Assn. About $80,000.

Tex., Farmersville—High School—City voted $80,000 bonds to build high school.

Tex., Ft. Worth—Bank and Office—Farmers & Mechanics Natl. Bank, 712-14 Main St., receives bids about Sept. 1, building 24 story, 95 x 100 ft. brick, rein.-con. and steel, rein.-con. flooring, rock foundation. About $1,500,000. J. W. Spencer, pres. Sanguinett & Staats, 1st Natl. Bank Bldg., Ft. Worth and Mauren-Russell-Crowell, Chemical Bldg., St. Louis, Mo., archts. Noted Dec. 5.

Tex., St. Jo—High School—Bd. Educ. plans to build 2 story school. About $50,-000, Page Bros. and Voelcker & Dickson, Wichita Falls, archts.

Okla., Tulsa—Office—P. C. Alexander, 244 Robinson Bldg., plans to build 5 story, at 410 South Main St. About $500,000. Engineer and architect not selected.

Okla., Tulsa — School — Catholic Parochial School Assn., 9th and Boulder Sts., plans to build 3 story, 104 x 125 ft. About $125,000.

Colo., Denver — Office — See "Miscellaneous."

Colo., Greeley—Auditorium—City soon receives bids building 1 story, 120 x 190 ft., rein.-con., rein.-con. flooring and foundation. About $150,000. W. N. Bowman, Central Savings Bank Bldg., Denver, archt.

Colo., Montrose—Court House—City and Montrose Co. soon receive bids building 3 story, 65 x 130 ft., stone and steel, rein.-con. foundation. About $125,000. W. N. Bowman, Central Savings Bank Bldg., Denver, archt.

Idaho, Caldwell—Hotel—Caldwell Citizens and Commercial Club plan to build 3 story, 100 x 150 ft. hotel. About $150,000. Address B. M. Holt, Caldwell. Architect not selected.

Utah, Salt Lake City—High Schools—Bd. Educ. having tentative plans prepared by Scott & Welch, archts., Dooley Bldg., building Junior High School on west side, about $125,000, also one on south side, about $120,000.

Utah, Salt Lake City—Schools—School Bd. having plans prepared by F. D. Rutherford, archt., Vermont Bldg., for 5 story addition to East Junior High School, 13th St., E., cost $150,000, also addition to Irving Junior High School, 12th St., E. and 21st St., $150,000.

Utah, Salt Lake City—Schools—School Bd. having preliminary plans prepared by Cannon & Fetzer, archts., Templeton Bldg., for high school and technical school on 4th St. W., and 1st St., N. About $1,100,000.

Utah, Salt Lake City—School—School Bd. having plans prepared by Pope & Burton, archts., Newhouse Bldg., for addition to Grant School at 625 South 1st West St.; also 4 story addition to Hamilton School on 8th East and 8th South Sts. About $65,000 each.

Utah, Salt Lake City— School—School Bd. having plans prepared by Ware & Treganza, archts., Utah Saving & Trust Bldg., for 3 story addition to Franklin School, 2nd and 7th Sts., cost $65,000, also 4 story addition to West Junior High School, 3rd St., W., $100,000.

Ariz., Morenci—School—School Trustees rejected bids received June 17, building 1, 2 and 3 story, rein.-con., concrete foundation. About $135,000 available. C. L. Wilson, Monrovia, archt. Noted June 5.

Wash., Spokane — Hospital — Scandia Hospital Assn. plans to build brick or granite hospital. About $400,000. C. E. Fogelquist, c/o Swedish Amer. League, pres.

Wash., Spokane — Sanapractorium — Washington Associates of Drugless Physicians plan to build sanapractorium. About $1,000,000, including equipment.

Cal., Anaheim—Clubhouse—B. P. O. E. plans to build clubhouse here. About $70,-000. Address H. Stern, chn. bldg. com.

Cal., Berkeley—Schools—Bd. Educ. plans to build high school to cost $92,000, also grade schools. Bonds for $2,321,000 voted to build schools. W. C. Hays, 1st Natl. Bank Bldg., San Francisco, official school archt.

Cal., Claremont—Hall—Pomona College plans to build chemistry hall; $100,000 donated for same.

Cal., Hollister—School—City election soon to vote on $140,000 bonds to build school. W. H. Weeks, 75 Post St., San Francisco, archt.

Cal., Santa Ana—Bank and Office—First Natl. Bank plans to build 5 or 6 story bank and office on 4th and Main Sts. Address W. A. Huff, c/o owner. Architect not selected.

Cal., South San Francisco—Hall—City having plans prepared by C. Warner, Phelan Bldg. and A. O. Coffey, Humboldt Bank Bldg., San Francisco, archts., for brick and steel. Bonds for $84,000 voted for project.

Cal. Turlock—Theatre—W. H. Weeks, archt., 75 Post St., San Francisco, preparing plans for theatre on Main St. About $100,000. Owner's name withheld. Turner & Dahnken, 134 Golden Gate St., San Francisco, lessee.

Que., Donnacona—Community — Deslisle & Floyd soon lets contract building 3 story, 75 x 80 ft. steel and brick, concrete foundation. About $50,000.

Ont., Hamilton—Postal Station—Dept. Pub. Wks., Ottawa, soon lets contract building 3 story, 50 x 75 ft. concrete, steel and brick, concrete foundation, on Main St. here. About $100,000.

Ont., London—Collegiate Institute—Bd. Educ. election in January to vote on $100,-000 by-law to build brick collegiate institute. Watt & Blackwell, Bank of Toronto Bldg., archts.

Ont., Toronto—Astronomical Observatory—Royal Astronomical Society plans to build 2 story, brick and stone, on Bathurst St. and St. Clair Ave. About $150,000. Site for same has been donated by city. Architect not selected.

BIDS DESIRED

Conn., Watertown—School — Until July 10, by School Bd., building 2 story brick, concrete and steel addition, rein.-con. flooring, concrete foundation, on Oakville St. About $50,000. L. Asheim, 211 State St., Bridgeport, archt. Noted Mar. 20.

N. Y., Brooklyn—School—Until July 7, by C. B. J. Snyder, supt. school bldgs., Municipal Bldg., New York City, building addition to P. S. 73, McDougal St. and Rockaway Ave.

N. Y., New York—Office and Loft—Until July 7, (change of date) by R. H. Almiroty, archt., 220 5th Ave., building 6 story, 27 x 100 ft. brick and steel, brick foundation, at 31 West 57th St., for Sohmer & Co., 315 5th Ave. About $75,000. Noted June 5.

N. Y., Thiells—Cottage, etc.—Until July 17, by F. A. Vanderlip, pres. bd. mgrs., Letchworth Village, 7 Wall St., New York City, building eight 1 story, 34 x 150 ft. steel cottages, with 36 x 46 ft. wing, concrete foundation, cost $350,000; 1 story, 40 x 80 ft. steel industrial building, concrete foundation, $115,000; 1 story, 49 x 145 ft. service building, with 64 x 100 ft. wing, concrete foundation, $40,000; underground tunnel and conduit, hot water and steam connections, distributing equipment, underground sewer, water connections and electric service, $130,000. L. F. Pilcher, Capitol, Albany, State archt.; advertised in this issue. Noted Jan. 30.

N. Y., Utica—Hospital—Until July 29, by State Hospital Comn., Capitol, Albany, building 3 story, 40 x 206 ft. hospital, with 3 wings 35 x 58 ft., cost $350,000, and 3 story hospital, with 3 wings, 41 x 83 ft., both brick and rein.-con., cost $400,000, for Utica State Hospital, Marcy Div. E. S. Elwood, secy. state hospital comn.; advertised in this issue.

N. J., Montclair—School—Until July 8, by L. L. Jackson, secy. bd. educ., 22 Valley Rd., for alterations to Watchung School. Starrett & Van Vleck, 8 West 40th St., New York City, archts. Noted June 26; advertised in this issue.

N. J., Woodbury—Bank—Until July 7, by C. R. Peddle, archt., 136 South 4th St., building 1 story, 35 x 106 ft., brick, for 1st Natl. Bank, Woodbury. About $125,000. Noted June 12.

Pa., Phila.—Bank—Second Natl. Bank, 4350 Frankfort Ave., receiving bids for 1 story, 72 x 100 ft., rein.-con., steel and brick. About $50,000. Stearns, Woodnut & Schmidt, 21 South 12th St., archts. Noted Oct. 24.

Pa., Phila.—Stations—Until July 8, by Dept. City Transit, 1211 Chestnut St., building two 40 x 40 ft. and two 20 x 50 ft. concrete and steel stations on Front St. at York and Daphin Sts. and on Girard Ave., for Frankfort Ave. Elevated Ry.; also entrance closures for stations at Ruan and Church Sts. and at Margaret and Orthodox Sts. C. T. Biswanger, c/o Dept. City Transit, engr. Noted June 19.

Pa., Phila. — Sunday School — Bethany Temple Presbyterian congregation, Spruce St., receiving bids building 3 story, 84 x 120 ft., concrete and stone. About $50,000. G. E. Savage, 1321 Walnut St., archt.

Va., Fredericksburg—School—Until July 7, by City Council and Bd. Educ., building 3 story, 78 x 125 ft., brick, concrete foundation, on Potters Field. About $125,000. P. N.Stern, Fredericksburg, archt.

O., Canton—Rest House—Pennsylvania Lines West of Pittsburgh, receiving bids building 4 story, 55 x 240 ft., brick, concrete foundation, here. T. Rodd, Pittsburgh, ch. engr.

O., Mechanicsburg—School—Until July 23, by R. C. Gotwald, archt., Gotwald Bldg., Springfield, building 3 story, 60 x 120 ft., rein.-con. and brick, rein.-con. flooring, concrete foundation, for Bd. Educ. About $75,000.

Ind., Hammond—Synagogue—H. C. Newhouse, archt, 4630 Prairie Ave., Chicago, receiving bids for 2 story, 55 x 115 ft. brick and timber, rock foundation, at 305 Sibley St. for Anshe Aneseth Israel congregation. About $50,000.

Mich., Decatur—School—Until July 14, by Bd. Educ., building 2 story, rein.-con. and brick. About $135,000. R. A. LeRoy, 122 Pratt Blk., Kalamazoo, archt.

Ill., Chicago—Convent—F. B. Byrne, archt., 104 South Michigan Ave., receiving bids for 3 story, 50 x 100 ft. brick and timber, concrete foundation, at 1220 East 55th St., for St. Thomas the Apostle congregation, c/o archt. About $65,000.

Ill., Chicago—Sales — Foltz & Brand, archts., 111 West Washington St., receiving bids for 3 story, 110 x 150 ft. rein.-con., rein.-con. flooring, concrete foundation, on 22nd St. and Union Ave., for H. F. DuPont, c/o archt. About $125,000.

Ill., Chicago—Theatre, Stores and Office—N. Thomasson, 4813 North Kedzie Ave., receiving bids for 3 story, 125 x 175 ft. rein.-con. and brick, rein.-con. flooring, concrete foundation, on Kedzie Ave. and Ainslie St. About $375,00. Foltz & Brand, 111 West Washington St., archts.

Wis., Chetek—School—Until July 7, by Bd. Educ. building 2 story, 60 x 100 ft. rein.-con. and brick high and grade school. About $50,000. W. L. Alban, 247 Endicott Bldg., St. Paul, Minn., engr. Noted June 5.

Minn., Bemidji—Dormitory—Until July 24, by State Bd. Control, Capitol, St. Paul, building 3 story, 42 x 120 x 120 ft., rein.-

Buildings (Continued)

con. and brick, brick foundation, at Norman School here. About $100,000. C. H. Johnston, Capital Bank Bldg., St. Paul, archt. Noted June 12.

Minn., Crookston—Dining Hall—Until July 15, by C. H. Johnston, archt., 715 Capital Bank Bldg., St. Paul, building 3 story, 50 x 130 ft., brick with wing 40 x 40 ft., at State Experimental Farm, here, for University of Minnesota. About $85,000. Noted June 19.

Minn., Duluth—Church—Until Aug. 1, by N. F. Russell, chn. com. Lakeside Presbyterian church, building 1 story, 60 x 140 ft., rein.-con., brick and steel, rein.-con. flooring, concrete foundation, on 45th Ave., E, and McCulloch St. About $60,000. P. M. Olsen, Sellwood Bldg., archt. and engr.

Minn., Ivanhoe—Courthouse—Until July 18, by A. L. Swenson, aud. Lincoln Co., building 2 story, 60 x 108 ft., brick and stone. About $125,000. H. C. Parsons, 600 Builders' Exch., Minneapolis, archt. Noted June 12.

Minn., Minneapolis—Business, etc.—Until July 24, by State Bd. Control, Capitol, St. Paul, building 6 story, 120 x 180 ft., rein.-con., brick and steel business building and storehouse, rein.-con. flooring, brick foundation. About $125,000. C. H. Johnston, 715 Capitol Bank Bldg., St. Paul, archt. Noted June 19.

Minn., Rochester—Hotel and Cafeteria—C. Grassie, 110 South Bway. St., receiving bids for 5 story, 80 x 88 ft., brick. About $175,000. A. Rose, 632 Blders. Exch., Minneapolis, archt. and engr.

Minn., St. Paul—Hotel and Theatre—Until Aug. 24, by Toltz, King & Day, archts. and engrs., 1410 Pioneer Bldg., for 16 story, rein.-con. and brick, rein.-con. flooring, rock foundation, on St. Peter St., for Ramm, Ruben & Finkelstein, Palace Theatre, Minneapolis. About $1,000,000.

Minn., Sauk Center—Cottages—State Bd. Control, Capitol, St. Paul, receiving bids for two 2 story, 35 x 80 ft. frame cottages at State Home for Girls, here. About $25,00 each. C. H. Johnston, 715 Capital Bank Bldg., St. Paul, archt.

Minn., Willmar—Service—Until Aug. 5, by State Bd. Control, Capitol, St. Paul, building 2 story, 45 x 120 ft., rein.-con. and brick, brick foundation, at State Asylum here. About $85,000. C. H. Johnston, 715 Capitol Bank Bldg., St. Paul, archt. Noted June 12.

Minn., Winona—School—Until July 24, by State Bd. Control, Capitol, St. Paul, building, 3 story, 42 x 120 ft., rein.-con. and brick, normal school. About $100,000. C. H. Johnston, 715 Capitol Bank Bldg., St. Paul, archt.

S. D., Redfield—Service—State Bd. Control, St. Paul, Minn., receiving bids for 2 story, brick and tile, at State Feeble Minded School, here. About $85,000. C. H. Johnston, 715 Capital Bank Bldg., St. Paul, archt.

Colo., Gunnison — High School — Until July 11 by High School Comn. Gunnison Co. building high school. About $50,000. W. B. Itther, Educatinal Bldg., St. Louis, Mo., archt.

Sask., Montmartre—College—Until July 23, by A. Fortin, archt., Gravelbourg building 3 story, steel and brick, concrete foundation, for Congregation of Our Lady. About $100,000.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★**Mass., Clinton**—Bank—First Natl. Bank let contract building 2 story brick and concrete, concrete foundation, to G. A. Fuller Co., 710 Bd. Trade Bldg., Boston. About $75,000.

Mass., New Bedford—School—City received only bid building 3 story, grammer school, from Corrigan & Hoag Constr. Co., 23 Rodman St., Fall River. About $261,000.

★**Mass., Springfield** — School—Bd. Educ. let masonry, carpentry and painting contract building 2 story, 12 room brick, concrete and steel addition to Homer St. school, rein.-con. flooring, concrete foundation, to include assembly and auditorium, to E. J. Pinney, 264 Main St., $91,955. Noted Feb. 13.

★**N. Y., Albany**—School—Bd. Educ. let contract building P. S. 19, 3 story, 41 x 160 ft., brick and rein.-con., concrete foundation, on New Scotland Ave., to Bame & Cardell, 176 Warren St. About $135,000. Noted May 15.

★**N. Y., Brooklyn**—Salesroom—See "Industrial Works."

★**N. Y., Brooklyn**—Theatre—M. L. B. Constr. Co., 438 Ashforth St., will build 1 story, 80 x 200 ft. brick and steel, brick foundation, on Chester St. and Pitkin Ave. About $75,000. Work will be done by day labor.

★**N. Y., Buffalo**—Store and Office—T. and E. Dickinson Co., Inc., Main St., let contract building 3 story, 40 x 112 ft., steel and concrete, rein.-con. flooring, to C. Everitt, Auburn Ave. About $60,000. Cost plus percentage basis.

★**N. Y., New York**—Auditorium and Office—Metropolitan Life Insurance Co., 1 Madison Ave., let contract building 16 story, 75 x 150 ft., brick and steel, brick foundation, at 11-15 Madison Ave., to A. A. Volk Constr. Co., 550 West 20th St. About $800,000, cost plus percentage basis. Noted June 26.

★**N. Y., New York** — Exchange — McKenzie, Voorhees & Gmellin, archts. and engrs., 1123 Bway., let contract to H. H. Oddie, 12 East 44th St., building 4 story, 103 x 115 ft. brick and steel, brick foundation, 167th St. and Grand View Pl., for New York Telephone Co., 15 Dey St. About $391,000. Noted June 5.

★**N. Y., New York**—Store and Office—Buckley-Newhall Co., 125th St. and 5th Ave., let contract building 12 story, 100 x 125 ft. brick, stone and steel, rock foundation, on 41st St. and 6th Ave., to Cauldwell Wingate Co., 381 4th Ave. Noted June 12.

★**N. Y., New York**—Theatre—Selwyn & Co., 229 West 42nd St., let contract building two 3 story, 100 x 200 ft. brick and steel, brick foundation, at Times Sq., to O'Day Constr. Co., 234 West 51st St., cost plus percentage basis.

N. Y., Ossining—Hall, etc.—C. F. Rattigan, supt. state prisons, Hall Records Bldg., New York City, received bids June 24, building mess hall and kitchen No. 4, detention No. 5, outside cell No. 7, clinic No. 8, pumphouse, reservoir, also sanitary, heating and electric work on same, from P. J. Carlin Constr. Co., 1123 Bway., New York City, $956,780, P. Keeler, 425 Orange St., Albany, $1,083,777, A. F. Stevens Co., New York City, $1,157,000. Noted June 12.

N. Y., Rochester—Bathhouse—Bd. Contr. & Supply received bids building new bathhouse, masonry, from A. Freidericks Sons Co., $85,575; marble and tile work, from Nell Bros. & Kern, $48,150; carpentry, from J. Luthers Sons Co., 176 North St., $24,416.

★**N. J., Asbury Park**—Church—Methodist Episcopal congregation let contract building 2 story, 70 x 190 ft., brick and steel, brick foundation, to H. H. Moore, Spring Lake. About $150,000. Noted Jan. 9.

★**Pa., Phila.**—Art Museum—City let contract building 1 story, 425 x 550 ft., concrete, at Fairmount Park, to F. W. Mark Constr. Co., Inc., Finance Bldg., $425,550.

★**Va., Richmond**—Bank—Federal Reserve Bank, 1109 East Main St., let contract building 5 story, 120 x 130 ft., concrete and steel, rein.-con. flooring, concrete foundation, on 9th and Franklin Sts., to J. T. Wilson Co., Inc., Mutual Bldg. About $1,000,000.

★**Fla., West Palm Beach**—Stores and Offices—F. Sheen let contract building 2 story addition, to E. A. Fonda, West Palm Beach. About $300,000.

★**O., Cleveland**—Commercial—C. Graber, 15703 Detroit Ave., let contract building 3 story, 67 x 94 ft., concrete, steel and brick, to E. Kline, 26 Warren Rd. About $100,000. Noted June 26.

★**O., Dayton**—Bank and Office—Winters Natl. Bank, 2nd and Main Sts., let contract building 5 story, 72 x 80 ft., rein.-con., steel and brick, rein.-con. flooring, concrete foundation, to Frank Hill Smith Co., Inc., West 3rd. St. About $250,000. Noted June 12.

O., Dayton — Salesroom — See "Industrial."

★**O., Pitsburg**—School—Bd. Educ. let contract building 2 story, brick addition, to L. S. Foltz & Son, Columbus, $83,100.

★**Mich., Royal Oak**—School—Bd. Educ. let contract building 2 story, 84 x 97 ft., rein.-con. and brick, rein.-con. flooring, concrete foundation, on Berkley Ave., to States Eng. Co., 514 Free Press Bldg., Detroit. About $130,000. Noted May 29.

Wis., Milwaukee — School — Bd. School Dirs., 10th and Prairie Sts., received bids building rein.-con. and brick, rein.-con. flooring, concrete foundation, on Grand Ave. between 27th and 28th Sts., from E. D. Kiesslich, 456 40th St., $98,000; W. Buchholz, 615 1st Ave., $80,625; H. Jahn, 1915 Chestnut St., $34,600. Noted June 26.

★**Minn., Duluth**—School—Bd. Educ. let contract building 1 story, 115 x 260 ft., rein.-con., brick and steel, rein.-con. flooring, concrete foundation, on Minnesota Ave., to G. H. Lounsberry, 322 East Superior St., $106,364. Noted June 12.

★**Minn., St. Cloud**—Hotel—Granite City Investment Co. will build 5 story, 120 x 200 ft., rein.-con., brick and steel, rein.-con. flooring, concrete foundation, on 9th and St. Germain Sts. About $300,000. Work will be done by day labor under supervision of H. Brien. Noted May 8.

★**Mo., St. Louis**—Exchange—Bell Telephone Co., Bway. and Olive Sts., let contract building 1 story, 50 x 160 ft., rein.-con., steel and brick addition, rein.-con. flooring, on 10th and Olive Sts., to Murch Bros., Constr. Co., Ry. Exch. Bldg. About $50,000.

★**Tex., Amarillo**—High School—Independent School Dist. let contract building 65 x 132 ft. brick and frame high school to W. Rice Constr. Co. About $70,000. Noted Apr. 10.

★**Tex., Ft. Worth**—Temple—Carpenter's Local Union No. 208 let contract building 100 x 115 ft. rein.-con. labor temple on 3rd and Calhoun Sts., to B. F. and C. M. Davis, Reynolds Bldg. About $80,000. Noted Jan. 2.

★**Idaho, Boise**—School—City let contract building 2 story, concrete and brick, concrete foundation, to O. W. Allen, 2310 Ada St. About $60,000.

★**Idaho, Lewiston**—Administration—State Bd. Educ. let contract building 2½ story, 60 x 140 ft., rein.-con., terra cotta and brick, concrete foundation, on campus of State Normal School, here, to Roth Constr. Co., Lewiston, $136,312. Noted June 6.

Cal., Downey — Psychopathic — Bd. Supervs. Los Angeles Co., received bids building 1 story, 60 x 269 ft., timber, rein.-con. flooring, concrete foundation, from G. F. Barber, 4342 Flower St., $61,590; Willard-Brent Co., Baker-Detwiler Bldg., $68,947; J. F. Atkinson, Story Bldg., $71,000, contractors all of Los Angeles.

★**Cal., Long Beach**—Church—First Christian Church let contract building brick and stone, concrete foundation, on 5th St. and Locust Ave., to J. D. Sherer, 1466 West 1st St. About $125,000, cost plus percentage basis. Noted Mar. 27.

Cal., Los Angeles—School—Bd. Educ. received bids building 2 story, 132 x 220 ft., on East 7th St., (a) brick walls, (b) hollow tile walls, from J. V. McNeil, H. W. Hellman Bldg., (a) $103,300, (b) $101,000; M. N. Yesberg, 1650 Morton Ave., (a) $104,800, (b) $103,800; J. F. Atkinson, Story Bldg., (a) $ or (b) $105,887. Noted May 29.

★**Cal., San Francisco**—Office—R. Dollar Co. let contract building 5 story, concrete addition on California and Battery Sts., to Dinwiddie Constr. Co., Crocker Bldg., $213,695.

Cal., Vernon—Office—See "Industrial Works."

★**Ont., London**—Store—T. F. Kingsmill, 130 Dundas St., let contract building 3 story, 37 x 59 ft., rein.-con., steel and brick, concrete foundation, on Dundas St., to R. G. Wilson, Dundas St. About $50,000. Noted June 5.

Federal Government Work

PROPOSED WORK

Conn., New London—Distributing System—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans to install, here; Spec. 3989. About $275,000.

Pa., Phila.—Wet Pipe System—Bureau Yards & Docks, Navy Dept., Wash., D. C., received no bids June 25, installing wet pipe system for automatic sprinkler in Building No. 7; Spec. 3957. Noted June 19.

Va., Hampton Roads — Bridge — Bureau Yards and Docks, Navy Dept., Wash., D. C., rejected bids received June 18, building transfer bridge at Operation Base, here; Spec. 3907. Noted June 26.

La., New Orleans—Coaling Wharf— U. S. Naval Sta. Eng. Dept., plans to extend and increase capacity of coaling wharf and plant. About $90,000.

Federal Government **Work (Continued)**

La., New Orleans—Power House—U. S. Naval Sta., having plans prepared for steel power house, rein.-con. flooring, concrete foundation, near Mississippi River. About $120,000.

Ill., Great Lakes—Sewage Disposal Plant—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans to alter and build addition to sewage disposal plant, here; Spec. 3995. Bids will be received at local yard.

Mo., St. Louis—Levee Work—Secy. Mississippi River Comn., 1311 International Life Bldg., rejected bids received June 19, for 200,000 cu.yd. earthwork by hydraulic method in Muscatine—Luisa Island Levee Dist., Ia. Noted May 22.

Cal., Ft. Bidwell—School—Comr. Indian Affairs, Dept. Interior, Wash., D. C., rejected only bid received May 27, building school, here. Noted June 5.

Cal., Mare Island—Torpedo Storage and Compressor Building—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans to build; Spec. 3991. About $60,000.

P. R., Cayey—Radio Buildings—Bureau Yards and Docks, Navy Dept., Wash., D. C., rejected bids building addition to operators' quarters and 2 cottages at High Power Radio Sta., here; Spec. 3902. Noted June 26.

BIDS DESIRED

Del., Wilmington — Storehouse — Until July 31, by U. S. Engr. Office, Wilmington, building here; advertised in this issue.

O., Cincinnati — Stone — Until July 28, by U. S. Engr. Office, Customhouse, furnishing and delivering stone at Dam No. 39, Ohio River; advertised in this issue.

P. R., San Juan—Dredging and Filling—Until July 28, by U. S. Engr. office, 39 Whitehall Bldg., New York City and U. S. Engr. office, San Juan, dredging San Juan Harbor and filling adjacent swamp lands with material dredged; advertised in this issue.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

Mass., Boston—Addition to Shipfitters' Shop—Bureau Yards & Docks, Navy Dept., Wash., D. C., received bids June 25, building addition to shipfitters' shop at structural shop, here, (1) work complete from Levering & Garrigues, 552 West 23rd St., New York City, (1) $412,699, (165 days); (2) add $65, deduct $15; (3) add $2, deduct $0.50; (4) $3; (5) add $21, deduct $10; (6) add $0.80; deduct $0.10.

F. G. Fearon Co., 280 Madison Ave., New York City, (1) $418,056, (165 days); (2) add $50, deduct $15; (3) add $200, deduct $0.50; (4) $23,000; (5) add $35, deduct $10; (6) add $1; deduct $0.25.

G. A. Fuller Co., 131 State St., (1) $424,861, (165 days); (2) add $47, deduct $18; (3) add $1.50, deduct $0.60; (4) add $9254; (5) $20.50, deduct $10; (6) $0.95, deduct $0.10. Noted June 19.

Mass., Hingham—Officers' Quarters—Bureau Yards & Docks, Navy Dept., Wash., D. C., received bids June 28, building 2 buildings for officers' quarters, at Naval Ammunition Depot, here, from C. S. Cunningham & Sons Constr. Co., 80 Boylston St., Boston, $33,959, (120 days); J. Miles & Sons Co., 393 Main St., Worcester, $34,464, (150 days); H. S. Roberts, 1123 Bway., New York City, $34,750, (150 days). Noted June 26.

R. I., Coaster's Harbor—Extending and altering Fire Alarm System—Bureau Yards & Docks, Navy Dept., Wash., D. C., received bid June 25, extending and altering at Naval Training Sta., here, from Gamswell Fire Alarm Telegram Co., 70 East 45th St., New York City, $19,062, (90 days). Noted June 19.

R. I., Coddington Point—Extending and Altering Fire Alarm System—Bureau Yards & Docks, Navy Dept., Wash., D. C., received bid June 25, extending and altering at Naval Training Sta., here, from Gamswell Fire Alarm Telegram Co., 70 East 45th St., New York City, $19,062, (90 days). Noted June 19.

R. I., Coddington Point—Tank and Tower—Bureau Yards & Docks, Navy Dept., Wash., D. C., received bids June 18, erecting tank and tower at U. S. Naval Camp, here, from Pittsburgh Des Moines Steel Co., 959 Munsey Bldg., Wash., D. C., $8500, (120 days). Noted June 12.

★**R. I., Melville**—Steel Pipe—Bureau Yards & Docks, Navy Dept., Wash., D. C., let contract furnishing steel pipe, to Pole & Tube Wks., Ave. D and Murray St., Newark, N. J., $1700, (30 days).

R. I., Newport—Extending and Altering Fire Alarm System—Bureau Yards & Docks, Navy Dept., Wash., D. C., received bid June 25, extending and altering at Naval Training Sta., here, from Gamswell Fire Alarm Telegram Co., 70 East 45th St., New York City, $19,062, (90 days). Noted June. 19.

★**N. Y., Brooklyn**—Fire Protection Lines—Local Navy Yard let contract installing fire protection lines, here, to J. Burns, 103 East 125th St., New York City, $25,900, (90 days).

★**N. Y., Brooklyn**—Pipe Line and Tunnel—Local Navy Yard let contract building tunnel and service pipe line, here, to Austin Heating Co., 121 West 42nd St., New York City, $12,775, (60 days).

★**N. Y., Brooklyn**—Repairs to Boiler Furnaces—Local Navy Yard let contract repairing boiler furnaces, here, to G. Allen & Son, 1511 3rd Ave., New York City, $15,935, (86 days).

N. Y., Montauk—Power House—Bureau Yards & Docks, Navy Dept., Wash., D. C., received bids June 25, building at Naval Air Sta., here, from Fanning & Quinn, 105 West 40th St., New York City, 8495, (60 days); King Lumber Co., Charlottesville, Va., $11,400, (75 days). Noted June 19.

N. Y., Montauk—Sewers—Bureau Yards and Docks, Navy Dept., Wash., D. C., received bids building additional sewers, here, from Gargord & Co., Inc., 503 5th Ave., New York City, $9499, (30 days); E. F. Monahan, 195 Hastings St., Manhattan Beach, $11,322, (30 days); C. Meads & Co., 38 Park Row, New York City, $11,640, (time as specified). Noted June 19.

N. Y., New York—Crane Runaway—Bureau Yards & Docks, Navy Dept., Wash., D. C., received bids June 25, furnishing crane runaways for Shipbuilding Slip No. 1 and for Bulkhead Handling and Storage, here, (1) work complete, from McClintic Marshall Co., 715 Munsey Bldg., Wash., D.C., (1) $403,936, (200 days); Bethlehem Steel Bridge Corp., 3rd St., Bethlehem, Pa., $427,000, (200 days); Amer. Bridge Co., Wilkins Bldg., Wash., D. C., $449,000, (180 days). Noted June 19.

N. Y., New York—Elevators—Bureau Yards & Docks, Navy Dept., Wash., D. C., received bids June 25, building 2 electric freight elevators and shipping ways No. 1, here, (1) work complete, from Albro Clem Elevator Co., D St. and Erie Ave., Phila., Pa., (1) $15,785, (120 days); Otis Elevator Co., 220 Bway., (1) $16,386 (120 days), (2) $14,996, (120 days); Warner Elevator Manufacturing Co., 113 Warren St., (1) $17,000. Noted June 5.

N. Y., New York—Rebuilding Shipbuilding Ways—Bureau Yards & Docks, Navy Dept., Wash., D. C., received bids June 25, rebuilding Shipbuilding Ways No. 1, here, (1) work complete from Underpinning & Foundation Co., 290 Bway., $697,897, (2) $30, (3) $10; Snare & Triest, 8 West 40th St., $817,000, (270 days), (2) $30, (3) $15; Jarrett & Chambers Co., 30 East 42nd St., (1) $859,275, (270 days). Noted June 5.

N. Y., Rockaway—Electric Light and Power Distributing System—Bureau Yards & Docks, Navy Dept., Wash., D. C., received bids June 25, installing at Naval Air Sta., from Hamilton Electric Co., 357 3rd St., Brooklyn, $43,143, (80 days), $41,975, (75 days), $41,000, (75 days); Hatzel & Bender, 3734 4th Ave., New York City, $51,000, (90 days); United Electric Contg. Co., 1727 Samson St., Phila., $51,750, (90 days). Noted June 19.

N. Y., Rockaway—Extension to Steam Heating System—Bureau Yards & Docks, Navy Dept., received bids June 28, extnding steam heating system at Air Sta., here, (1) work complete, from

Rutzler Co., 404 East 49th St., New York City, (1) $10,740, (50 days); (2) $269; (3) $284; (4) $140; (5) $287.

T. B. Connelly, 339 Thames St., Newport News, Va., (1) $18,700, (60 days); (2) $200; (3) $550; (4) $50; (5) $400.

Raisler Heating Co., 129 Amsterdam Ave., New York City, (1) $19,500, (60 days); (2) $480; (3) $490; (4) $340; (5) $495. Noted June 26.

N. Y., Rockaway—Latrine and Washroom—Bureau Yards & Docks, Navy Dept., Wash., D. C., received bids June 28, building at Air Sta., here, from Rangley Constr. Co., 405 Lexington Ave., New York City, $9400, (40 days); H. S. Roberts, 1123 Bway., New York City, $11425, (40 days); T. B. Thomas, 125 5th Ave., Bay Shore, $16,675, (40 days). Noted June 26.

N. Y., South Brooklyn—Storage Building—Bureau Yards & Docks, Navy Dept., Wash., D. C., received bids June 25, constructing compass storage building on roof of Building S-2, at Fleet Supply Base, here, from Barney-Ahlers Constr. Co., 110 West 40th St., New York City, $13,110, (60 days); Rangeley Constr. Co., 405 Lexington Ave., New York City, $13,600, (60 days); B. Diamond, 12 Bergen St., Brooklyn, $13,750, (75 days). Noted June 19.

N. J., Cape May—Cell House—Bureau Yards & Docks, Navy Dept., Wash., D. C., received bids June 25, building cell house at Naval Training Camp, Wissahickon Barracks, here, from Pauly Jail Bldg. Co., 215 Dekalb St., St. Louis, Mo., $9450, (40 days); Eaton, Brown & Simpson, 90 West St., New York City, $19,177; alternate $13,377, (60 days). Noted June 19.

N. J., Cape May—Flood Lighting System—Bureau Yards & Docks, Navy Dept., Wash., D. C., received bids June 25, installing in Wissahickon Barracks, here, from Carroll Electric Co., 714 12th St., N. W., Wash., D. C., $4450, (45 days); Blumethal-Kahn Co., 505 North Eutaw St., Baltimore, Md., $5570, (time as specified); G. E. Eng. Co., 22 Laight St., New York City, $5864, (75 days). Noted June 19.

★**Pa., Ft. Mifflin**—Cleaning, Repairing and Resurfacing Roads—Bureau Yards & Docks, Navy Dept., Wash., D. C., let contract cleaning and repairing existing roads and resurfacing with bituminous dressing, to M. J. McCruden, 805 Franklin Trust Bldg., Phila., (1) and (2), $1870, (15 days). Noted June 19.

Pa., Ft. Mifflin—Tank and Tower—Bureau Yards & Docks, Navy Dept., Wash., D. C., received bids June 25, building 1 elevated steel water tank and tower, here, for Delaware River water, (1) work complete, from Pittsburgh Des Moines Steel Co., 959 Munsey Bldg., Wash., D. C., (2a) $5500, (105 days); Chicago Bridge & Iron Co., 30 Church St., New York City, (2) $5635, (120 days); A. Stang, 1220 Locust St., Phila., (2) $9500, (3) $8500, (60 days). Noted June 19.

Pa., Phila.—Assembly Shop — Bureau Yards & Docks, Navy Dept., Wash., D. C., received bids June 25, building extension to assembly shop, at Naval Aircraft factory at Navy Yard, here, (1) work complete, from

M. H. McClosky, Jr., 1620 Thompson St., (1) $632,861, (180 days); (2) add $30, deduct $11; (3) add $.60, deduct $.02

Irwin & Leighton, 126 North 12 St., (1) $654,000, (150 days); (2) add $29, deduct $19; (3) add $1, deduct $.10.

Hughes Foulkrod, 1406 Commonwealth Bldg., (1) $664,043, (180 days), alternate $657,634; (2) add $33, deduct $20; (3) add $1.32, deduct $.10. Noted June 12.

Pa., Phila.—Fire Escape—Bureau Yards & Docks, Navy Dept., Wash., D. C., received bids June 25 constructing fire escape for Building No. 6, from J. Baizlex Iron Co., 514 Delaware Ave., S., $1650 (60 days); Rich & Kemp, 21st St. and Washington Ave., $1900, (60 days); Gutleib & Scholl, 225 East 138th St., New York City, $1984, (60 days). Noted June 19.

Pa., Phila.—Pattern Shop—Bureau Yards & Docks, Navy Dept., Wash., D. C., received bids June 25, building, here, (1) work complete, from

M. H. McClosky, 1620 Thompson St., Phila., Pa., (1) $262,262, (120 days), (2) deduct $13,000; (3) deduct $34,556; (4) deduct $37,010; (5) add $18, deduct $6; (6) add $0.60; deduct $0.2; (7) add $42, deduct $20; (8) add $1.60, deduct $0.60.

T. Riley, 1616 Thompson St., Phila., Pa., (1) $265,100, (120 days); (2) add $4; (3) deduct $34,600; (4) deduct $31,280; (5) add $12, deduct $9; (6) add $0.60; (7) add $34.35, deduct $21; (8) add $1.35, deduct $0.85.

Warren Moore Co., Colonial Trust Bldg., Phila., Pa., (1) $265,852, (time as specified); (2) add $2036; (3) deduct $34,908; (4) deduct $32,243; (5) add $20, deduct $9; (6) add $1; deduct $0.10; (7) add $60, deduct $15; (8) add $2; deduct $50. Noted June 5.

Pa., Phila.—Paving and Resurfacing, etc.—Bureau Yards & Docks, Navy Dept., Wash., D. C., received bids June 25, paving and resurfacing existing roads, ballasting railroad tracks, extensions, alterations and drainage, from Curtis Bros., Longshore and Tulip Sts., Tacony, $102,000, (120 days); E. C. Fish Co., 704 Real Estate Trust Bldg., $106,780, (120 days). Noted June 19.

Pa., Phila.—Pipe System of Automatic Sprinkler—Bureau Yards & Docks, Navy Dept., Wash., D. C., received bids June 25, installing combination wet and dry pipe

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system of automatic sprinklers in Building No. 87, (1) work complete, from General Fire Extinguisher Co., 1220 Stock Exch. Bldg., (1) $26,450, (2) $5.50, (3) $5.50,(120 days); H. G. Vogel Co., 25 South Orinna St., $28,920, (2) $6. Noted June 19.

Pa., Phila.—Sprinkler System—Bureau Yards & Docks, Navy Dept., Wash., D. C., received bids June 25, installing dry system of automatic sprinklers in Building No. 336, here, (1) work complete, from Gen. Fire Extinguisher Co., 1220 Stock Exch. Bldg., (1) $27,200, (2) $5.50, (3) $5.50, (4) $0.15, (5) $0.15, (6) $0.50; H. G. Vogel Co., 85 Orinna St., (1) $29,995, (2) $6. Noted June 19.

★Md., Annapolis—Painting Towers—Bureau Yards & Docks, Navy Dept., Wash., D. C., let contract painting radio towers, here, to Kootz & Banks, 416 High St., Portsmouth, Va., $10,584 (30 days). Noted June 19.

Md., Indianhead—Housing Development—Bureau Yards & Docks, Navy Dept., Wash., D. C., received bids building 84 houses, water supply, fire protection, sewer and electric distributing systems, roads and walks at Naval Proving Grounds, here, (1) work complete, from H. S. Roberts, 1123 Bway., New York City, (1) $159,350, (180 days), (2) $37,750, (4) add $1.25 to $9, $1.10 to $8; King Lumber Co., Charlottesville, Va., (1) $248,000, (180 days), (2) $20,000; (4) $.80 to $5. Noted June 10.

★Md., Indianhead—Piping and Electrical System—Bureau Yards & Docks, Navy Dept., Wash., D. C., let contract installing piping and electrical system, here, to Almirall & Co., 1 Dominick St., New York City, $25,800, (150 days). Noted June 19.

★Md., Indianhead—Power Plant—Bureau Yards & Docks, Navy Dept., Wash., D. C., let contract building extension to power plant, here, to Levering & Garrigues, 552 West 23rd St., New York City, $250,572, (200 days). Noted June 19.

Md., Indianhead—Toilet Buildings—Bureau Yards & Docks, Navy Dept., Wash., D. C., received bids June 25, constructing toilet buildings and additions at Powder Factory Reservation, here, from H. S. Roberts, 1123 Bway, New York City, $69,750, (120 days); Newport Contg. & Eng. Co., Silsby Bldg., Newport News, Va., $78595, (120 days); De Kimpe Constr. Co., Dispatch Bldg., Union Hill, N. J., $97,000, (150 days). Noted June 19.

D. C., Anacostia—Buildings, Hangars, Roads and Distributing Systems—Bureau Yards & Docks, Navy Dept., Wash., D. C., received bids June 25, building and installing, here, (1) work complete, from

J. Gill & Sons, 1302 Citizen Bldg., Cleveland, O., (1) $366,000, (time as specified), (2) $50, deduct $15; (3) $1.50, deduct, $0.25; (4) deduct $200.

Boyle-Robertson Constr. Co., 601 Evans Bldg., Wash., D. C., (1) $370,258, (180 days); (2) add $20, deduct $10; (3) add $70, deduct $0.10; (4) deduct $400; (5) deduct $65,000.

King Lumber Co., Charlottesville, Va., (1) $394,600, (180 days); (2) add $15, deduct $5; add $.80, deduct $0.40; (4) add $1000; (5) deduct $55,000. Noted June 19.

D. C., Anacostia — Platform — Bureau Yards & Docks, Navy Dept., Wash., D. C., received bids building elevated wooden platform, here, from L. E. Breuninger, Colorado Bldg., Wash., $1150, (45 days); Boyle-Robertson Constr. Co., 601 Evans Bldg., Wash., $2493.

D. C., Bellevue—Pier and Fire Protection System—Bureau Yards & Docks, Navy Dept., Wash., D. C., received bids June 28, building pier and installing fire protection system at Naval Magazine, here, (1) work complete, from

Hyde & Baxter, 711 13th St., N. W., Wash., (1) $51,00, (time as specified) (2) $26,000, (100 days); (3) $9,000, (30 days); (4) $27,000, (180 days); (5) $9,500, (45 days); (6) $1,000, (10 days); (7) $15; (8) add $30, deduct $20; (9) add $.60, deduct $.20; (10) add $135, deduct $110.

Boyle-Robertson Constr. Co., 601 Evans Bldg., Wash., (1) $51,915, (200 days); (2) deduct $24,624, (50 days); (3) deduct $10,350, (50 days); (6) deduct $600; (7) $25; (8) add $18; (9) add $.50, deduct $.50.

McLean Contg. Co., 1415 Fidelity Bldg., Baltimore, Md., (1) $52,711, (220 days); (2) $28,000, (50 days); (3) $9350, 10 days); (4) $29,759, (140 days), (5) $11,000, (120 days); (6) deduct $350; (7) $25; (8) add $40, deduct $10; (9) add $.90, deduct $.05; (10) add $150, deduct $100. Noted June 26.

D. C., Takoma Park—Garage, Sidewalks, alterations and additions to Mess Hall, etc. —Constr. Quartermaster, Walter Reed Army Hospital, received bids June 24, building garage, concrete sidewalks, additions and alterations to mess hall, etc., from J. Troutt Constr. Co., 937 Shepherd St., $41,182; Spinker & Parrett, 1416 F St., N. W., $53,514; E. L. Wagner, 1723 F St., N. W., $62,500. Contractors all of Wash.

★D. C., Wash.—Equipment—First Asst. Postmaster General let contract furnishing mechanical equipment for post office garage, here, to I. Freund, 1315 7th St., N. W., $10,352. Noted June 26.

★D. C., Wash.—Garage — First Asst. Postmaster General let contract building garage at Post Office, here, to A. C. Moses Constr. Co., 918 New York Ave., N. W., $51,649. Noted June 26.

D. C., Wash.—Kitchen, Cafeteria and Boiler House—Treas. Dept., Wash., received only bid June 26, building kitchen, cafeteria and boiler house, at War Industries Building, from W. P. Lipscomb, 1406 G St., N. W., $17,291, (30 days).

★D. C., Wash.—Pavement—Bureau Yards & Docks, Navy Dept., Wash., D. C., let contract paving with vitr. brick and curbing with concrete at Marine Barracks, here, to Costigan & Maloney, 407 Colorado Bldg., $4933, (30 days). Noted June 26.

D. C., Wash. — Pump House — Dist. Comrs., Dist. Bldg., received bids June 20, building pump house at Municipal Fish Market, Water St., from H. S. Hatton & Co., $750, (15 days); T. C. Henderson, $847, (30 days); H. R. Dedney, $815, (30 days). Contractors all of Wash. Noted June 19.

Va., Hampton Roads—Fire Alarm System—Bureau Yards & Docks, Navy Dept., Wash., D. C., received bids June 25, installing fire alarm system, in East Camp of Naval Training Sta., here, (1) work complete, from Gamswell Fire Alarm Co., 71 East 45th St., (1) $9600, (60 days), (2) $1246; E. J. Installation Electric Co., 221 West 33rd St., (1) $7671, (90 days), (2) $930, (3) $8300, (4) $1000; G. E. Eng. Co., 22 Laight St., (1) $10,281, (90 days), (2) $1098. Contractors all of New York City. Noted June 19.

Va., Hampton Roads—Railroad Extension—Bureau Yard & Docks, Navy Dept., Wash., D. C., received bids June 25, building at Naval Air Sta. and Naval Operating Base, here, (1) work complete, from Porter & Dewett, Army Supply Co., Base, Norfolk, (1) $38,150, (2) $6, (90 days), Carroll Electric Co., 714 12th St., N. W., Wash., D. C., (1) $48,127, (2) $9.50, (100 days). Noted June 19.

Va., Hampton Roads—Surfacing, Grading, Filling and Sodding—Bureau Yards & Docks, Navy Dept., Wash., D. C., received bids, surfacing, grading, filling and sodding 300 acres at Naval Operating Base, here, (1) grading 300 acres, (2) 5000 cu.yd. overhaul, (3) 210,000 cu.yd. cinder on slag fill, (4) 242,000 cu.yd. top soil and, (5) 300 acres sodding, from

McLean Contg. Co., 1415 Fidelity Bldg., Baltimore, Md., (1) $138, (18 months); (2) $1.044; (3) $2.98; (4) $2.65.

J. Gill & Sons, 1302 Citizens Bldg., Cleveland., O., (1) $295, (time as specified); (2) $1.75; (3) $4.14, alternate $.90 to $1.75; (4) $3.77; (5) $2100, alternate (1) $155; (2) $425.

Claiborne, Johnson & Co., 910 Garrett Bldg., Baltimore, Md., (1) $300, (120 days); (2) $2; (3) $3.03; (4) $3.04. Noted June 5.

Va., Hampton Roads—Tank and Tower—Bureau Yards & Docks, Navy Dept., Wash., D. C., received bids June 18 erecting tank and tower at U. S. Marine Barracks, here, from Pittsburgh Des Moines Steel Co., 969 Munsey Bldg., Wash., D. C., $8680, (120 days). Noted June 12.

Va., Norfolk—Boat Shed and Dredging—Bureau Yards & Docks, Navy Dept., Wash., D. C., received bids building boat shed and dredging at Naval Operating Base, (1) work complete, exclusive of dredging, (2) unit price additional for each linear foot of pile in excess of 58 ft. of length, (3) unit price deduction for each linear foot even of pile less than 58 ft. of length, (4) unit price in addition for each cubic yard of dredging based on 2000 cu. yd., from H. P. Converse & Co., 31st and Colonial Aves., (1) $30,480, (75 days), (2) $1, (3) $.30, (4) $2; McHard Barton Co., 171 Madison Ave., New York City, (1) $32,400, (75 days), (2) $.75, (3) $.20, (4) $2; J. Gill & Sons, 1302 Citizens Bldg., Cleveland, O., (1) $34,750, (time as specified), (2) $2, (3) $.10, (4) $2.

Va., Quantico—Grading, Concrete Roads and Platforms—Bureau Yards & Docks, Navy Dept., Wash., D. C., received bids grading, buildings concrete roads and platforms at Marine Flying Field, here, (1) work complete from

McLean Contg. Co., 1415 Fidelity Bldg., Baltimore, Md., (1) $83,338, (180 days); (2) deduct $16,500; (3) $13,500, (60 days); (4) $18; (5) $45; (6) 8 in. $420, 10 in. $420; (7) add $20, deduct $1; (8) add $1, deduct $0.05.

Boyle-Robertson Constr. Co., 601 Evans Bldg., Wash., D. C., (1) $93,525, (120 days); (2) $18,500; (4) $25; (5) $40; (6) 8 in. $584, 10 in. $900; (7) add $25, deduct $15; (8) add $1, deduct $10.

G. A. Fuller Co., 1138 Munsey Bldg., Wash., D. C., (1) $99,728, (150 days); (2) $22,000, (60 days); (3) $22,500, (60 days); (4) $18; (5) $50; (6) add $400, deduct $700; (7) add $14, deduct $7; (8) add $0.70, deduct $0.35. Noted June 26.

★Va., Quantico — Storehouses — Bureau Yards & Docks, Navy Dept., Wash., D. C., let contract building 12 metal storehouses, here, to Hugh Foulkrod Co., Commonwealth Bldg., Phila., Pa., $280,000, (60 days). Noted June 26.

Va., Yorktown — Buildings — Bureau Yards & Docks, Navy Dept., Wash., D. C., received bids June 25, constructing 11 buildings at Naval Mine Depot, here, (1) work complete, from Newport Contg. & Eng. Co., Silsby Bldg., Newport News, (1) $289,331, (270 days); H. S. Roberts, 1123 Bway., New York City, (1) $289,611, (270 days); King Lumber Co., Charlottesville, (1) $314,900, (180 days); (2) deduct $2000. Noted June 26.

Va., Yorktown—Machine Shop—Bureau Yards & Docks, Wash., D. C., received bids June 28, building at Naval Mine depot, here, (1) work complete, from McLean Contg. Co., 1415 Fidelity Bldg., Baltimore, Md., (1) $6000, (70 days), (2) $1.50; Newport Contg. & Eng. Co., Silsby Bldg., Newport News, (1) $6780, (70 days); (2) $2, Boyle-Robertson Constr. Co., Evans Bldg., Wash., D. C., (1) $7904, (70 days), (2) $3. Noted June 26.

Va., Yorktown—Road—Bureau Yards & Docks, Navy Dept., Wash., D. C., received bids building concrete road at Naval Mine Depot, (1) work complete, based on length of road of 4 mi., including excavating and grading, from

McLean Contg. Co., 1415 Fidelity Bldg., Baltimore, Md., (1) $199,000, (150 days); (2) $1000; (3) $500; (4) $1.45; (5) $16 to $30; (6) $45,000; (7) $2.50.

Porter & Dewitt, Army Supply Base, Norfolk, (1) $253,300, (120 days); (2) $1178; (3) $100; (4) $1.50; (5) $8.25 to $14; (6) $60,000; (7) $278,000.

S. R. Curtis, Lee Hall, (1) $333,360, (150 days); (2) $1580; (3) $200; (4) $0.90; (5) $12.50 to $22; (6) $112,000; (7) $530. Noted June 19.

★S. C., Charleston — Building — Bureau Yards & Docks, Navy Dept., Wash., D. C., let contract constructing amusement building, here, to D. F. Brandon, 806 James Bldg., Chattanooga, Tenn., $36,774, (120 days). Noted June 26.

S. C., Charleston—Quarters for Guards—Electric Lighting Water Supply and Fire Protection Systems—Bureau Yards & Docks, Navy Dept., Wash., D. C., received bids June 28, building and installing at Naval Ammunition Depot, here, (1) work complete, from Simons-Mayrant Co., Peoples Office Bldg., (1) $49,873, (180 days), (2) $25, (3) $.25; H. S. Roberts, 1123 Bway., New York City, (1) $68,665, (180 days), (2) add $40, deduct $20, (3) add $.80, deduct $.40. Noted June 26.

★S. C., Paris Island—Power House—Bureau Yards & Docks, Navy Dept., Wash., D. C., let contract building extension to power house, here, to Newport Contg. & Eng. Co., Law Bldg., Newport News, Va., $10,385, (60 days).

S. C., Paris Island—Tank and Tower—Bureau Yards & Docks, Navy Dept., Wash., D. C., received bids June 18, erecting tank and tower at East Camp of U. S. Naval Training Sta., here, from Pittsburgh Des Moines Steel Co., 959 Munsey Bldg., Wash., D. C., $9000, (120 days). Noted June 12.

S. C., Paris Island—Water Supply System—Bureau Yards & Docks, Navy Dept., Wash., D. C., received bids June 25, building fresh water supply system, at Marine Barracks, here, (1) work complete, from

Noland Clifford Co., 220 28th St., Newport News, Va., (1) $58,150, (120 days); (1a) $53,600; (2) deduct $3600; (6) $6; (7) $0.16 to $1.80.

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Newport Contg. & Eng. Co., Law Bldg. Newport News, Va., (1) $73,915 (120 days); (1a) $70,915; (2) deduct $3000; (6) add $6 to $4; (7) add $0.31 to $3; deduct $0.20 to $2.40.

Charleston Eng. & Constg. Co., 58 Broad St., Charleston, (1) $86,843, (120 days); (2) $3300; (5) $83,543, (120 days); (6) $5.50; (7) $0.20 to $4. Noted June 19.

Fla., Key West—Oil Burning Equipment—Bureau Yards & Docks, Navy Dept., Wash., D. C., received bids June 25, furnishing oil burning equipment for boilers in central heating plant, from South Florida Contg. & Eng. Co., Key West, $5800, (120 days); A. M. Lockett & Co., 533 Baronne St., New Orleans, La., $5915, (70 days); Carroll Electric Co., 714 12th St., N. W., Wash., D. C., $6590, (120 days). Noted June 19.

Fla., Key West—Power House, Electric Generator Equipment and Fire Protection System—Bureau Yards & Docks, Navy Dept., Wash., D. C., received bids June 25, building power house and installing electric generator equipment and fire protection system, from South Florida Contg. & Eng. Co., Key West, $97,000, (180 days); Newport Contg. & Eng. Co., Silsby Bldg., Newport News, Va., $112,140, (180 days). Noted June 19.

Fla., Key West—Sewer—Bureau Yards & Docks, Navy Dept., Wash., D. C., received bids June 25, building intercepting sewer at Naval Air Sta., here, (1) work complete, from Carroll Electric Co., 714 12th St., N. W., Wash., D. C., (1) $9750, (120 days); Southern Florida Contg. & Eng. Co., Key West, (1) $14,000, (120 days), (2) $6100. Noted June 19.

Fla., Pensacola—War Heads and Detonator Storehouses—Bureau Yards & Docks, Navy Dept., Wash., D. C., received bid June 25, building at Naval Air Sta., here, from C. H. Turner Co., 30 East Garden St., $5492, (80 days). Noted June 19.

★O., Cincinnati — Boilers — Treas. Dept., Wash., D. C., let contract installing 2 boilers in Post Office and Custom House, here, to Heine Safety Boiler Co., 1432 Union Trust Bldg., $20,430. Noted June 19.

★O., Cincinnati—Lock and Abutment—U. S. Engr. Office, Cincinnati, let contract building lock, abutment and esplanade for Dam 32, Ohio River, to Dravo Contg. Co., Diamond Bank Bldg., Pittsburgh, Pa., $1,099,379. Noted Apr. 10.

Ill., Great Lakes — Drainage — Bureau Yards & Docks., Navy Dept., Wash., D. C., received bids draining at Naval Training Sta., Camp Paul Jones, (1) work complete, from

H. D. Hallett, 132 Donner Pl:, Aurora, (1) $13,378, (30 days); (2) $0.45 to $1.22; (3) $0.25; (4) $50; (5) $5; (6) $25; (7) $1.20.

J. A. Sackley, 133 West Washington St., Chicago (1) $18,658; (2) $0.82 to $2.98; (3) $0.41 to $2.98; (3) $0.41; (4) $116.84; (5) $10; (6) $41; (7) $3.05.

C. E. Carson, 155 North Clark St., Chicago, (1) $38,348, (30 days).

Amer. Sewer & Drain Constr. Co., 2816 Washtenaw Ave., Chicago, Ill., (1) $21,879, (30 days); (2) $1.50 to $3.50; (3) $0.50.

Ill., Great Lakes—Road Work—Bureau Yards & Docks, Navy Dept., Wash., D. C., received bids June 25, improving roads at Naval Training Sta., here, (1) work complete, from

Contg. & Material Co., 3219 Michigan Ave., Chicago, (1) $32,460, (50 days); (2) $2.30; (3) $1; (4) $2.50; (5) $2.50; (6) $0.60 and $1; (7) $20; (8) $0.60 and $1 (9) $20.

J. A. Sackley, 123 West Washington St., Chicago, (1) $35,000, (50 days); (2) $2.92; (3) $1.25; (4) $2.25; (5) $3; (6) $0.90 and $1.30; (7) $45; (8) $0.90 and $1.30; (9) $45.

C. E. Carson Co., 155 North Clark St., Chicago, (1) $58,000, (50 days). Noted June 19.

Mich., Houghton — Post Office —Treas. Dept., Wash., D. C., received bids June 27, building post office, here, (a) limestone, (b) sandstone, from Northern Constr. Co., Colby Abbott Bldg., Milwaukee, Wis., (a) $76,989, (b) $77,889; W. D. Lovell, 1415 8th St., S. E., Minneapolis, Minn., (a) $81,000; A. W. Lane, 19 South La Salle St., Chicago, Ill., (a) $90,456. Noted May 29.

★Wyo., Laramie — Road Work — Dist. Engr., U. S. Forest Serv., Denver, Colo., let contract grading 7 mi. Woods Creek Project in Medicine Bow Natl. Forest, 16 ft. wide, involving 15,200 cu.yd. earth and 10,300 cu.yd. rock excav., to C. Baker, Cowdrey, Colo., $24,833.

PIER—PHILADELPHIA, PA.

Bids were received by Department of Wharves, Docks & Ferries, June 23, for constructing, with appurtenant work, Penn Treaty Recreation Pier No. 5, North Delaware River, from (A) Simpson & Brown, 90 West St., New York City; (B) Snare & Triest Co., Pennsylvania Bldg.; (C) Armstrong & Latta Co., Land Title Bldg.; (D) J. H. Terry & Co., 969 Drexel Bldg., $92,825; (E) Latta & Roberts, 767 Drexel Bldg., $94,874; (F) Arthur McMullen Co., 1309 Finance Bldg., $95,270; (G) McLean Contg. Co., 1415 Fidelity Bldg., Baltimore, $135,245. The unit bids of the lowest 3 bidders were as follows:

	A	B	C
Entire work (lump sum)	$52,105.00	$59,900.00	$63,677.00
Removal of timber boat landing	100.00	500.00	300.00
10,000 cu.yd. dock dredging	.41	.40	.37½
3,500 tons gravel or cobble filling	1.38	1.20	1.40
500 hours mechanics with tools	1.10	2.00	1.49
500 hours laborers with tools	.75	.60	1.00
Unit prices for bulkhead and park work:			
1,000 cu.yd. excavation	2.83	3.30	3.00
40 piles, removal of piles	4.20	12.00	10.00
54 piles, vertical or bearing piles	28.80	25.00	24.00
20 shoes, pile shoes	2.58	2.00	3.00
27,000 ft.b.m. new sawed timber	133.00	150.00	156.00
3,500 lin.ft. tie and drag logs	.52	.34	.46
1 concrete inlet	48.00	80.00	100.00
750 cu.yd. filling	.90	1.00	.25
800 sq.ft. bulkhead walkway	.70	.50	.95
3,200 sq.ft. park footwalks	.45	.30	.60
100 lin.ft. granolithic coping	.90	.60	1.00
150 lin.ft. steel corner bar	.24	.30	.25
4 cast steel cleats	60.00	30.00	50.00
Extended totals	$75,165	$82,225	$87,755
Unit prices for additional work:			
Vertical or bearing piles	$34.50	$25.00	$30.00
Inclined or spur piles	41.75	28.00	40.00
Pile shoes	3.10	2.00	3.00
New sawed timber (substr.)	159.50	130.00	150.00
New sawed timber (superstra.)	165.50	110.00	160.00
Bolts, nuts, washers, spikes, etc.	.09	.06	.10
No. 1 concrete	29.00	25.00	32.00
No. 2 concrete	24.00	15.00	20.00
Reinforcing steel	.06	.05	.10
Hard cement finish	.15	.10	.25

ROAD WORK—SALT LAKE CITY, UTAH

Bids were received by Commissioners of Salt Lake County (lowest 5), for constructing Bingham Highway from State St. to Redwood Rd. and from Redwood Rd. to Welby, from (A) Clifton, Applegate & Toole, Billings, Mont.; (B) Strange & McGuire Paving Co., Utah Savings & Trust Bldg.; (C) Heuser-Packard Co., Atlas Bldg.; (D) J. W. Mellen, Auditorium Bldg.; (E) Owen H. Gray Co., Dooley Bldg. The unit bids were as follows:

	A	B	C	D	E
8,526 cu.yd. excavation as per plans without classification	$1.10	$1.15	$1.20	$1.22	$1.30
64,800 sq.yd. bituminous concrete pavement 2 in. thick surface	.54	.65	.75	.80	.....
3,168 cu.yd. gravel fill measured in wagons delivered on work, including spreading and rolling	1.20	1.50	1.50	1.30	1.30
64,800 sq.yd. crushed stone 4-in. thick after compression	.30	.29	.30	.36	.....
64,800 sq.yd. concrete pavement as per plans 6 in. to 8 in. thick. Materials to be furnished by county	1.07	.....	1.10	1.00	1.02
64,800 sq.yd. steel mesh reinforcement in place to be furnished by county	.02	.....	.03	.025	.025
28,078 lb. in structures, twisted plain or deformed steel bars, bending and placing, to be furnished by county	.015	.03	.015	.015	.015
79,866 lb. in paving, twisted plain or deformed steel bars, bending and placing, to be furnished by county	.015	.03	.015	.015	.015
14,580 lin.ft. elastic or Sarco expansion joint filler in place. To be furnished by county	.02	.....	.015	.02	.02
10,800 cu.yd. crushed rock measured in wagons delivered on work, including spreading and rolling	1.80	1.75	1.50	2.15	.....
64,800 sq.yd. concrete base as per plans 4-in. to 6-in. thick. Materials to be furnished by county	.70	.65	.80	.77	.....
192.16 cu.yd. concrete in structures, materials furnished by county price to include bending and placing reinforcing, class "A"	15.00	21.00	18.00	25.00	16.00
164.38 cu.yd. concrete in structures, materials furnished by county, price to include bending and placing reinforcing, class "B"	14.00	21.00	18.00	22.00	16.00
87.26 cu.yd. excavation for concrete structures above water line	1.25	1.75	1.40	1.25	1.25
109.26 cu.yd. excavation for concrete structure below water line	5.00	6.50	4.00	3.25	10.00
50 lin.ft. 18 in. vitrified pipe. Pipe to be furnished by county	.50	.60	1.00	.55	.50
50 lin.ft. 18-in. reinforced concrete pipe. Material to be furnished by county	.60	.70	1.00	.60	.50
50 lin.ft. 18-in. galvanized corrugated iron pipe to be furnished by county	.40	.40	1.00	.35	.35
9,410 tons mixed black base or bituminous concrete foundation	3.25	4.90	5.00	5.25	.....
900 cu.yd. extra excavation	1.10	1.10	1.50	1.40	1.00
5,132.9 cu.yd. road haul	.80	.75	1.00	.90	.85
1,300 lin.ft. lineal feet of "penetration of timber piles" untreated	1.25	1.70	1.00	1.25	1.75
Extended totals bituminous surface on concrete base	$205,157	$214,540	$231,281	$234,067	.....
Extended totals bituminous surface on crushed rock base	160,135	172,369	179,132	188,333	.....
Extended totals bituminous pavement surface on black base	177,933	207,959	215,044	222,557	.....
Extended totals plain concrete pavement	189,466	.....	195,552	189,865	$190,293
Extended totals reinforced concrete pavement	205,707	.....	212,506	206,463	206,890

Federal Government Work (Continued)

★**Mont., Kalispell**—Road Work—Bureau Pub. Rds., Missoula, let contract building 30 mi. North Fork National Forest Rd., Flathead Co., here, to Carlson, Norman & Co., Spokane, Wash., $126,000. Noted May 29.

Cal., San Diego—Distributing System—Bureau Yards & Docks, Navy Dept., Wash., D. C., received only bid June 25, building underground electric distributing and street lighting system at Naval Air Sta., here, from Carroll Electric Co., 714 12th St., N. W., Wash., D. C., $56,900. Noted June 5.

Cal., Tiburon — Engine House — Navy Yard, Mare Island, received bids June 18, building engine house, here, (1) work complete, from Gutleben Bros., New Call Bldg., (1) $17,691, (97 days), (2) $10,801, (35 days), (3) $3531, (35 days); K. E. Parker Co., North 519 California St., (1) $18,187, (100 days), (2) $7770, (100 days), (3) $4100; (100 days); Lindgren Co., Monadnock Bldg., (1) $20,593, (150 days), (2) $7969, (150 days), (3) $8422, (150 days). All contractors of San Francisco.

Miscellaneous

PROPOSED WORK

Transmission Line—Lowville, N. Y.—Northern New York Utilities, Inc., Light and Power Bldg., Watertown, having surveys made for high tension steel tower transmission line from power house at Belfort to here, a distance of 20 mi. Address H. G. Davis, ch. engr.

Bakery Ovens—Tarentum, Pa.—H. Reitner soon lets contract building 2 bakery ovens, brick. About $15,000. McCormick Co., Century Bldg., Pittsburgh, archts.

Athletic Field—Lexington, Va.—Virginia Military Institute Alumni Assn. plans to build athletic field, including rein.-con. grand stand, on ground east of barracks. About $50,000. M. B. Coarse, secy. and treas.

Park Amusements—Columbia, S. C.—Victory Amusement Park, Inc., plans to build swimming pool, scenic railway, and similar devices at Victory Park, formerly (Hyott Park). About $30,000. B. H. Berkman, pres. Engineer not selected.

Lighting Fixtures—Orangeburg, S. C.—City plans election to vote on $30,000 bonds to provide and install 1.5 mi. ornamental lighting fixtures. J. H. Hawes, Orangeburg, engr.

Car Barn—Massillon, O.—Northern Ohio Traction & Light Co., Hamilton Bldg., Akron, preparing plans for 1 story, 40 x 100 ft., brick car barn, steel roof trusses, here.

Sea Wall—Rockwood, Mich.—Port Mouille Shooting Club, Rockaway, soon lets contract building 750 ft. rein.-con. sea wall supported on wooden piles, at lake shore. About $20,000. W. H. Adams, Vinton Bldg., Detroit, engr.

Breakwater—Racine, Wis.—Bd. Pub. Wks. soon receives bids building rubble mound breakwater, involving 2500 ft. lakeshore protection. About $225,000. P. H. Connolly, city engr.

Steam Road Roller—Sheboygan, Wis.—City receives bids about July 1, delivering steam road roller, 15-20 ton capacity, f.o.b. Sheboygan. About $30,000. C. U. Boley, city engr.

Bunkers, etc.—Madison, Minn.—School Bd. soon lets contract building new coal bunkers, 1000 bbl. cistern, new steam boilers and air washer for high school. H. A. Sullwood, 639 Endicott Bldg., St. Paul, engr.

Foundation—Denver, Colo.—State soon receives bids building foundation for 5 story, 112 x 114 ft. office building to cost $500,000. W. N. Bowman, Central Savings Bank Bldg., archt.

Transmission Line—Sacatone, Ariz.—State plans to build 11,000 volt transmission line from here to State Penitentiary at Florence, 25 mi. About $50,000. T. Maddock, Phoenix, state engr.

Dike—Woodland, Wash.—Bd. Supervs. Diking Impvt. Dist. No. 5 rejected only bid received June 10, building dike near here, involving 213,235 cu.yd. excav. Cost about $0.25 per cu.yd. Work will be readvertised. G. J. Poysky, Kelso State Bank Bldg., Kelso., engr. Noted June 5 under "Excavation and Dredging.

Pipe—Portland, Ore.—P. McIntosh, asst. purch. agt., City Hall, soon lets contract furnishing 40,000 lbs. 2 in. galvanized pipe for Bur. Waterworks.

Tanks—Portland, Ore.—Pub. Docks Comn., foot Stark St., soon lets contract furnishing, delivering, fabricating and erecting 6 steel tanks, 1000-5000 bbl. capacity. About $48,000. G. B. Hegardt, c/o Dock Comn., engr. Noted June 12.

Dock—St. Helens, Ore.—See "Railways."

Wharf — Sacramento, Cal.—City having plans prepared for rein.-con. wharf at foot of Y St. About $21,000. F. C. Miller, city engr.

Pier—San Diego, Cal.—City plans to build pier and warehouse. F. A. Rhodes, city engr.

Fire Alarm System—South San Francisco, Cal.—City voted $10,000 bonds for fire alarm system.

Park and Electroliers—Tracy, Cal.—City election soon to vote on $10,000 bonds for park and $10,000 bonds for electroliers.

Train Shed—Halifax, N. S.—C. B. Brown, engr., Moncton, soon lets contract building ocean terminals at new South Station for Canadian Natl. Rys., Montreal, Que. About $75,000.

Freight Shed—Rothesay, N. B.—C. R. Brown, engr., Moncton, soon lets contract building 40 x 150 ft., concrete, steel and brick, concrete foundation, at railway terminals, here, for Canadian Natl. Rys., Ottawa, Ont. About $100,000.

Hydro-Electric System—Teeswater, Ont.—Town Council having plans prepared installing hydro-electric system for lighting and power distribution. A. Flint, 190 University Ave., engr. Address J. A. Constantine, Teeswater.

Hydro-Electric System—Wingham, Ont.—City Council plans to install hydro-electric system for lighting and power distribution. A. Flint, 190 University Ave., Toronto, engr. Address J. F. Groves, Wingham.

BIDS DESIRED

Fishway—Lawrence, Mass.—Until July 14, by Comrs. Fisheries and Game, building rein.-con. fishway. W. C. Adams, chn.; advertised in this issue.

Cast Iron Pipe—Providence, R. I.—Until July 7, by Bd. Contr. & Supply, furnishing 91 ton c.i. water pipe.

Water Gate Boxes, Covers, etc.—Jersey City, N. J.—Until July 8, by city, furnishing 20 tons water gate boxes and covers, and sewer manhole frames and covers.

Repressed Vitrified Paving Blocks—Ebensburg, Pa.—See "Streets and Roads."

Revetment—Toledo, O.—Until July 7, by C. A. Benedict, dir. pub. welfare, building timber revetment, involving two hundred and two 24 in. oak piles, 24 ft. long, 89,316 ft. B. M. 3 in. oak piles, 13,332 ft. B. M. 6 x 8 in. pine walling, 10,500 lb. iron bars, bolts and nuts and 28,800 cu.yd. hydraulic dredgwork, etc. About $125,000. P. Wright, 311 Valentine Bldg., engr.

Wharf—Berthier, Que.—Until July 24, by Dept. Pub. Wks., Ottawa, Ont., building and repairing wharf here. R. C. Desrochers, secy.

Wharf — Connaught Sta., Ont.—Until July 15, by R. C. Desrochers, secy. dept. pub. wks., Ottawa, building timber pilework wharf, here.

Copper Cable, etc.—Winnipeg, Man.—Until July 12, by Dept. Pub. Wks., furnishing copper cable and steel transmission towers for transmission line between here and Portage La Prairie, 30 mi. long. G. A. Greirson, engr.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★**Coal Pocket—Bridgeport, Conn.**—S. & S. Coal Co., Housatonic Ave., let contract building 49 x 110 ft. timber coal pocket, to D. Schine & Son, 729 Union Ave. About $10,000. Noted Apr. 10 under "H. Schurr."

★**Cast Iron Pipe—Brooklyn, N. Y.**—N. J. Hayes, comr. water supply, gas and electricity, Municipal Bldg., New York City, let contract furnishing, delivering, unloading, stacking and storing c.i. pipe, to J. Fox & Co., 253 Bway., New York City. About $15,300. Noted June 19.

★**Bulkhead—Newark, N. J.**—City let contract building bulkhead on Passaic River, to Linde & Griffith, foot 4th St., $16,500. Noted June 26 under "Hackensack."

★**Pier — Phila., Pa.** — Dept. Wharves, Docks and Ferries, Bourse Bldg., let contract building appurtenant work, Penn Treaty Recreation Pier, No. 57, North Delaware River, to Simpson & Brown, 90 West St., New York City, $75,165. Noted June 26.

★**Bakery Ovens—Lorain, O.**—Essig Baking Co. let contract building 2 rein.-con., steel and brick ovens, rein.-con. flooring and concrete foundation, to M. T. Nuhn, Lorain. About $30,000. Noted June 5.

★**Castings, Pipe, etc.—Detroit, Mich.**—Dept. Purchases & Supplies, Municipal Courts Bldg., let contracts, to U. S. Cast Iron Pipe & Foundry Co., East Burlington, N. J., furnishing 500 tons castings as follows: 12 ft. lengths, plain c.i. pipe, $53.50 per ton; 12 ft. lengths with lugs, $58.50; 8, 12, 16 and 20 in., c.i. pipe, with bell and spigot ends, from 9 ft. and less than 12 ft., $73.50; 8, 12, 16 and 20 ft., c.i. pipe, less than 9 ft. long, without lugs, $93.50; 8, 12, 16 and 20 in. special castings, with spigot or flange ends, with or without lugs, $148.50; 4 in. Class "A" drain pipe with bell and spigot ends in 12 ft. lengths, $55.50; 4 in. Class "A" special castings, Y's, T's, crosses and taps with bell and spigot ends, $130.50, all f.o.b. cars Detroit; Flower Valve Mfg. Co., Clayton and Parkinson Aves., 58 gate valves as follows: 8 in., $112 each; 12 in., $255; 16 in., $385; 20 in., $670; A. P. Smith Mfg. Co., East Orange, N. J., furnishing high pressure fire hydrants as required by fire dept. for year, $175 each; Michigan Steel Castings Co., 248 Goin St., rough steel castings such as elbows, T's and crosses as required by fire dept., $0.15 per lb. Noted June 19.

Conduit—Detroit, Mich.—Pub. Lighting Comn. received bids building conduit in John R. and Chene Sts., Cass, Grand River, Kercheval and Junction Aves., involving 5¼ mi. 1 and 4 duct conduit, 175 manholes, 170 handholes and 350 lamp pole foundations, from Contg. & Material Co., South La Salle St., Chicago, $213,583; F. Porath, 305 Free Press Bldg., $217,729; J. A. Mercier, 216 Hammond Bldg., $308,853. Noted June 19.

★**Miscellaneous Supplies—Detroit, Mich.**—Dept. Purchases & Supplies, Municipal Courts Bldg., let contract, to Owen & Graham Co., 2845 East Grand Blvd., furnishing model 101 "GMC" truck with horizontal hydraulic hoist and equipment, $5305; to Flower Valve Mfg. Co., 107 Parkinson St., 400 double nozzle fire hydrants at $98.50 each total $39,400, four hundred 6 in. gate valves, $27.30 each, total $10,920, c.i. T's sleeves and bends, $0.064 per lb.; to Fibre Conduit Co., Orangeburg, 15,000 ft. 4 in. fibre conduit, 5 ft. lengths, ¼ in. wall, 5000 ft. 3 in. fiber conduit, ends prepared for tapered sleeve, four hundred 3 in. bends, 90 degrees, one hundred 3 in. 45 degree bends and 100 tapered sleeves for 45 degree bends, $1834.

★**Dock—Wyandotte, Mich.**—City let contract building 36 x 100 ft. rein.-con. dock with retaining walls on wood piling, filled with earth and cinder fill with concrete top, old piles to be capped under water, to A. J. Dupuis & Co., 1022 Ford Bldg., Detroit, $16,000. Noted June 12.

★**Hollow Tile and Brick—St. Paul, Minn.**—H. W. Austin, city purch. agt., City Hall, let contract furnishing face and backing tile in various quantities for requirements this year, to Twin City Brick Co., Capital Bank Bldg., $13.20 to $70.00 per M; 21,500 rough face brick, to Corning-Donohue Brick Co., 613 Ryan Bldg., $31 per M. Noted June 19.

★**Water Meters—St. Paul, Minn.**—H. W. Austin, purch. agt., City Hall, let contract furnishing 300 5/8 in. disc type water meters as required by Bureau of Water for 1919, to Badger Meter Co., South Boston, Mass., $9.87 each. Noted June 12.

★**Clearing — Woodland, Wash.** — Bd. Supervs. Diking Impvt. Dist. No. 5, let contract clearing 160 acres of right of way for dikes, canals and drainage ditches, to Pacific Bridge Co., Salmon St., Portland, Ore., at $135 per acre. Total cost, $21,600.

★**Cement — McMinnville, Ore.** — State Highway Comn., Portland, let contract furnishing 23,000 bbls. cement, to H. Cowell Lime & Cement Co., Ry. Exch. Bldg., Portland, $2.69 per bbl., total cost, $61,870.

★**Pipe—Anaheim, Cal.**—City let contract to Pacific Pipe & Supply Co., 1002 Santa Fe Ave., Los Angeles, furnishing 1350 ft. 12-in. c.i. pipe, at $66.80 per ton, 300 ft. 4-in. c.i. pipe, $71.80 per ton, specials and fittings, $123 f.o.b. Anaheim; to Krogh Pump & Mchy. Co., 206 North Los Angeles St., Los Angeles, furnishing pump, $2410. Bids for motors rejected. Noted May 15.

★**Pipe—Santa Monica, Cal.**—City let contract, to Pacific Pipe & Supply Co., 1002 Santa Fe Ave., furnishing 7350 ft. Class "B," c. i. bell and spigot pipe, 16 ft. lengths, $11,287, fittings, $373; Amer. Cast Iron Pipe Co., Citizens Natl. Bank Bldg., 6000 lb. pig lead, $354, 200 lb. oakum, $18; Allis-Chalmers Mfg. Co., Title Insurance Bldg., booster pump, $895; contractors all of Los Angeles. Noted June 26.

Asphalt Association Service Department

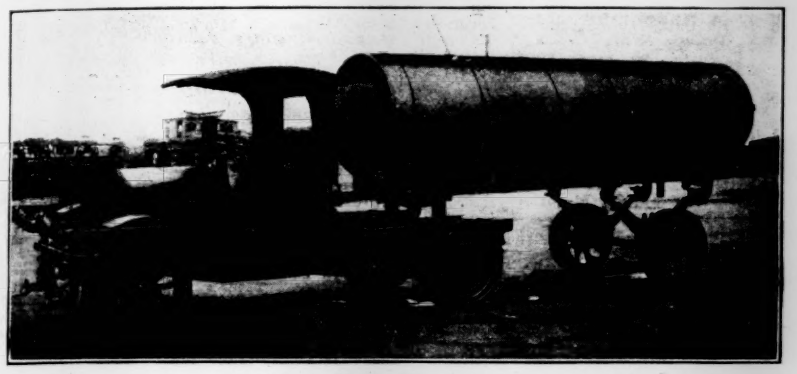
Details of the service to be rendered to public officials by the service department of the newly formed Asphalt Association have just been announced.

The idea of the association is that by raising the standard of asphalt work in all communities up to that attained by the most successful communities the interests of both the taxpayers and the asphalt industry will be materially benefited.

The names of the engineers forming the preliminary organization were given in the *Engineering News-Record* of June 26, p. 1286. They will work from the head office at 15 Maiden Lane, New York, and from branch offices in various parts of the country. Various lines of service have been proposed, among which may be named: (1) Coöperation with colleges and other educational institutions, through lectures and otherwise, to the end that the young engineer on graduation may have an accurate knowledge of the uses and limitations of asphalt; (2) a research department to coöperate with public officials in the selection of asphalt and the types of construction; (3) coöperation with officials in the proper construction of asphaltic roads; (4) collection and distribution of information of economic and statistical character.

New Semi-Trailer Sprinkler and Flusher With Detachable Tank

A new semi-trailer street sprinkler and flushing machine, as shown in the accompanying illustration, is being put upon the market by Charles Hvass & Co., of 511 E. 18th St., New York City. The avantages claimed for this apparatus are its extra tank capacity and the fact that the trailer may be detached and the truck used for other purposes.



SEMI-TRAILER STREET FLUSHER AS USED IN BUFFALO, N. Y.

A five-ton Pierce-Arrow truck is used for the motive power and support of the various sprinkling nozzles. The tank holds 2000 gal. and is attached to the truck through a plate bearing with motion in two directions, thus giving great flexibility. All the nozzles, of which there are four flat nozzles for flushing and two round nozzle sprinklers, are operated by levers from the driver's seat. Buffalo, N. Y., has six of these machines in operation and nine more ordered. In the winter the tank is detached and the truck is used for other purposes.

Business Notes

THE LAKEWOOD ENGINEERING CO., of Cleveland, Ohio, has engaged Lawrence L. Rogers, an experienced contractor, as plant service engineer, to render service and advice to contractors and public officials in solving construction plant problems on highway work. Mr. Rogers was formerly treasurer and field manager of Rogers Brothers Co., Los Angeles, Calif.

THE BLAW-KNOX CO., of Pittsburgh, Penn., announces that the sale of its plant located at Wheatland, Penn., is in line with its program to concentrate all of its manufacturing at Hoboken, Penn., where it is building a plant to take care of the work previously handled at Wheatland. The new plant at Hoboken will be completed within the next few weeks. A welding plant, in which steel mill and chemical plant specialties will be manufactured, is also being built at Hoboken.

THE ADVANCE MACHINERY CO., of 1234 Real Estate Trust Bldg., Philadelphia, Penn., announces that Alfred H. Wynkoop, formerly president of the Ralph R. Lewis Co., of Philadelphia, has severed his connection with that firm to become associated with the former company in a selling capacity. He will handle a complete line of contractors' roadmaking and railway equipment.

THE EDISON STORAGE BATTERY CO. announces the election of Maj. Charles E. Sholes as vice-president, director and general sales manager, succeeding Harrison G. Thompson, who has resigned to organize and conduct the Transportation Engineering Corporation of New York. Major Sholes has heretofore been identified with the construction, operation and management of chemical industries. He served in the war in the Ordnance Department, Chemical Branch, and is chairman of the Society of Chemical Industry.

THE HARRISON SAFETY BOILER WORKS announces that it has acquired the "Monash" line of pressure-reducing valves and pump governors formerly manufactured by the Monash-Younker Co., of New York, and will manufacture and market the valves under the trade name "Cochrane-Monash." Repair parts for valves now in use will also be furnished.

Trade Publications

The following companies have issued trade publications:

THE ACME MOTOR TRUCK CO., Cadillac, Mich.; folder, 9¼ x 11¾ in., 4 pages, illustrated; gives testimonials and costs of handling coal by motor trucks, including a 5-mile haul from mine to city.

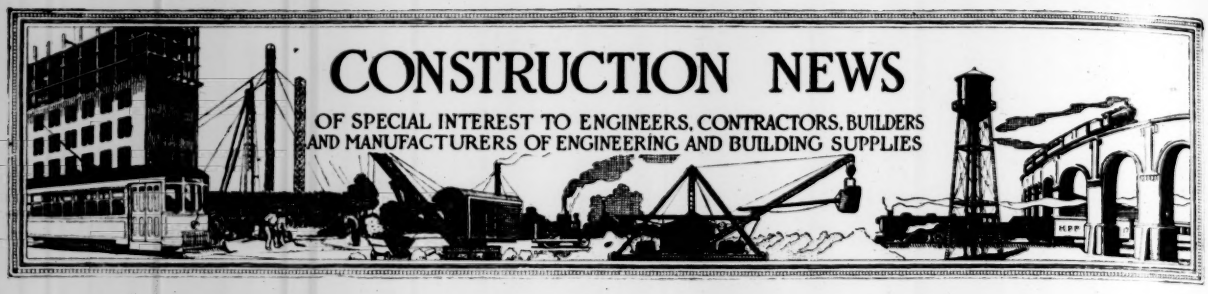
THE THOMPSON-STARRETT CO., New York City; book, 5½ x 8 in., boards, with linen back, illustrated; reproduces photographs of the Municipal, Woolworth, Equitable and other buildings in New York City and elsewhere constructed by the company, together with a brief descriptive text. The book is handsomely made and includes a view of the sky-line of New York City, showing a number of buildings, power houses, industrial plants and United States government works executed by the company.

THE INTERNATIONAL STEEL TIE CO., Cleveland, Ohio; folder, 8½ x 11 in., illustrated; describes the use of steel guards for edging for concrete paving.

THE WALLACE & TIERNAN CO., INC., New York City; catalog, 7 x 10 in., illustrated; the subject of the booklet is "Protecting the Water Supply of Greater New York." They have also issued a folder 8½ x 11½ in., 4 pages, illustrated; entitled "How Much is Three Billion Gallons?" Both describe sterilization of water by the use of liquid chlorine.

THE GENERAL CONSTRUCTION CO., of Chicago, Ill.; leaflet, 8½ x 11 in., one page, illustrated; describes a rivet forge.

THE GEORGE C. ZIDETTO MACHINERY CO., Pittsburgh, Pa.; folder, 9 x 12 in., 8 pages, illustrated; gives specifications and describes various kinds of concrete and material-handling machinery.



CONSTRUCTION NEWS

OF SPECIAL INTEREST TO ENGINEERS, CONTRACTORS, BUILDERS AND MANUFACTURERS OF ENGINEERING AND BUILDING SUPPLIES

PROPOSALS

"For Proposals Advertised see the pages immediately following the Construction News Section."

WATERWORKS

Bids Close		See Eng. News-Record
July 14	Mt. Pleasant, Utah	July 3
July 15	Denton, Mont.	June 19
July 16	Milwaukee, Wis.	June 26
July 16	Decorah, Ia. Adv. June 12 and 19.	June 12
July 19	Lincoln, Neb.	July 10
July 21	Eagle Rock, Cal.	July 10
July 21	Hinckley, Minn.	July 10
July 22	Ashland, O. Adv. July 10.	July 10
July 24	Ashland, Ky. Adv. July 10.	July 10
July 25	Akron, O. Adv. July 3.	July 3
Aug. 1	Litchfield, Minn.	July 3

SEWERS

July 14	North Mankota, Minn. Adv. June 19.	June 19
July 15	St. Cloud, Minn.	July 10
July 15	Newman Grove, Neb.	July 3
July 16	Milaca, Minn.	June 19
July 18	Goldsboro, N. C. Adv. July 10.	July 10
July 22	Bradley, Ill.	July 10
July 24	Harrison, Ont.	July 10
July 25	Milan, Mo.	July 10
Aug. 5	Wakefield, Neb.	July 10
Aug. 19	Kansas City, Mo. Adv. July 3.	July 3

BRIDGES

July 10	Adrian, Mich. Adv. June 26.	June 26
July 10	Riparius, N. Y. Adv. June 19.	June 19
July 14	Princeton, Minn.	June 19
July 14	Annapolis Royal, N. S.	July 3
July 14	Du Bois, Pa.	July 10
July 15	Crookston, Minn.	June 26
July 15	Cedar Rapids, Mich. Adv. June 19.	June 19
July 17	Pilkington, Ont.	July 10
July 18	Punxsutawney, Pa.	July 10
July 18	Summerville, Pa.	July 10
July 18	Watertown, N. Y.	July 10
July 21	Arkansas	July 10
July 21	Phoenix, Ariz. Adv. July 10.	July 10
July 22	Walker, Minn.	July 10
July 24	Beaufort, S. C.	July 10
July 25	Livingston, Mont.	July 10
July 25	Toston, Mont.	July 10
July 29	Jacksonville, Fla.	July 3
Aug. 4	Little Rock, Ark.	July 3
Aug. 19	Statesboro, Ga.	July 3
Aug. 20	Swainsboro, Ga.	July 3

STREETS AND ROADS

July 12	Kingston, Ont.	July 10
July 12	Columbus, Miss.	July 10
July 13	Galt, Ont.	July 3
July 14	Grand Rapids, Minn.	June 26
July 14	Fayetteville, W. Va.	June 26
July 14	Ivanhoe, Minn.	June 26
July 14	Cambridge, Minn.	June 26
July 14	Worthington, Minn.	June 26
July 14	Ebensburg, Pa.	July 10
July 14	Long Island, N. Y.	July 10
July 14	Long Island City, N. Y.	July 10
July 14	St. Paul, Minn.	July 10
July 14	Duluth, Minn.	July 10
July 14	Baird, Tex.	July 10
July 14	Ebensburg, Pa. Adv. June 26 and July 3.	July 3
July 14	Hollidaysburg, Pa. Adv. July 3.	July 3
July 14	Washington	July 3
July 14	Fayetteville, W. Va.	July 10
July 14	Clintonville, Wis.	July 10
July 15	Anacortes, Wash.	July 10
July 15	Utah	July 10
July 15	Santa Fé, N. M.	July 10
July 15	Huntington, W. Va.	July 10
July 15	Indiana Adv. July 10.	July 10
July 15	St. Louis, Mo.	June 26
July 15	Vermont	July 3
July 15	Huntington, W. Va.	July 3
July 15	Albany, Mo.	July 10
July 15	Rochester, Minn.	July 3
July 16	Wisconsin	July 10
July 16	Faribault, Minn. Adv. July 3.	July 3
July 16	Indianapolis, Ind.	July 3
July 16	Springfield, O.	June 19
July 16	Doylestown, O.	July 10
July 16	Brooklyn, N. Y.	July 10
July 16	Litchfield, Minn.	July 10
July 16	Ebensburg, Pa.	July 10
July 17	Lisbon, O.	July 10
July 17	Red Wing, Minn.	July 3
July 17	Boston, Mass.	July 3
July 17	Port Huron, Mich.	July 10
July 17	Wisconsin	July 10
July 17	Pittsburgh, Pa.	July 10
July 18	Caledonia, Ont.	July 10
July 18	Adrian, Mich. Adv. July 10.	July 10
July 18	Ohio	July 10
July 18	Quebec	July 10
July 18	Owen Sound, Ont.	July 10
July 19	Brainerd, Minn.	July 3
July 19	Fair Haven, Ill.	July 10
July 20	Litchfield, Minn.	July 3
July 21	Arkansas	July 10
July 21	Burbank, O.	July 10
July 21	Welland, Ont.	July 10
July 22	Rome, Ga.	July 3
July 22	New York	July 10
July 23	Bethany, Mo. Adv. July 10.	July 10
July 23	Quebec	July 10
July 25	St. Louis, Mo.	June 26
July 25	Kent, O. Adv. July 3.	July 3
July 25	Jersey City, N. J.	July 10
July 26	St. Joseph, Mo.	July 10
July 28	Junction City, Kan.	July 10
July 29	Pennsylvania Adv. July 10.	July 10
July 29	New York Adv. July 10.	July 10
July 30	California	June 19
Aug. 24	Denver, Colo.	July 10

EXCAVATION AND DREDGING

July 14	West Warren, Mass.	July 10
July 15	Wapello, Ia. Adv. June 26.	June 26
July 15	Marshalltown, Ia. Adv. June 26.	June 26
July 15	Chicago, Ill.	July 10
July 15	Sheboygan, Wis.	July 10
July 18	Owen Sound, Ont.	July 10
July 20	Columbus, Mont.	July 10
Aug. 6	Kenton, O.	July 3

INDUSTRIAL WORKS

Bids Close		See Eng. News-Record
July 12	Brooklyn, N. Y.	July 12
July 15	Omaha, Neb.	July 10
July 15	Flushing, N. Y.	June 19
July 15	London, Ont.	July 3
July 20	Omaha, Neb.	July 3
Aug. 1	Duluth, Minn.	June 26
Aug. 1	Hastings, Minn.	May 15

BUILDINGS

July 12	Sheboygan, Wis.	July 10
July 12	Sault Ste Marie, Ont.	July 10
July 12	Toronto, Ont.	July 10
July 14	Halifax, N. S.	July 10
July 14	Decatur, Mich.	July 3
July 15	Crookston, Minn.	July 3
July 15	Fraserville, Que.	June 12
July 15	Greybull, Wyo.	June 26
July 15	Ste. Annedes, Que.	July 10
July 15	Junction City, Kan.	July 10
July 15	Brainerd, Minn.	June 26
July 15	Detroit, Mich.	July 10
July 15	Hamtramck, Mich.	July 10
July 15	Harlowton, Mont.	July 10
July 15	Helena, Mont.	July 10
July 16	Hastings, Minn.	July 10
July 16	Wahjamego, Mich.	July 10
July 16	Oaklandon, Ind.	July 10
July 16	Centerville, Minn.	July 10
July 17	Malone, N. Y.	June 26
July 17	Thiells, N. Y. Adv. July 3.	July 3
July 18	Ivanhoe, Minn.	July 3
July 20	Salt Lake City, Utah.	July 10
July 21	Wellington, Kan.	July 10
July 22	Detroit, Mich.	July 10
July 23	Rock Hill, S. C.	July 10
July 23	Montmatre, Sask.	July 3
July 23	Lorain, O.	June 26
July 23	Mechanicsburg, O.	July 3
July 24	Winona, Minn.	July 3
July 24	Minneapolis, Minn.	July 3
July 24	Bemidji, Minn.	July 3
July 25	Salt Lake City, Utah.	July 10
July 28	Murray, Utah	July 10
July 28	Montreal, Que.	July 10
July 28	Shawenegan Falls, Que.	July 10
July 28	Woodstock, Ont.	July 10
July 28	Cap de la Madeleine, Que.	July 10
July 29	Utica, N. Y. Adv. June 26 and July 3.	July 3
July 29	Omaha, Neb.	July 10
July 30	Austin, Minn.	June 26
July 31	Lincoln, Neb.	July 10
Aug. 1	Gastonia, N. C.	June 26
Aug. 1	Kenosha, Wis.	May 15
Aug. 1	Duluth, Minn.	July 10
Aug. 1	Virginia, Minn.	June 19
Aug. 1	Duluth, Minn.	July 3
Aug. 5	Willmar, Minn.	July 3
Aug. 15	Casper, Wyo.	July 10
Aug. 15	New Bedford, Mass.	July 10
Aug. 15	Omaha, Neb.	July 10
Aug. 24	St. Paul, Minn.	July 3

FEDERAL GOVERNMENT WORK

July 15	Officers Quarters—Washington, D. C.	June 26
July 15	Officers Quarters—Wilmington, N. C.	June 26
July 16	School—Rapid City, S. D.	June 26
July 18	Silt Diversion Works—Los Angeles, Cal. Adv. June 19.	June 19
July 21	Dredging—New York, N. Y. Adv. June 26.	June 26
July 21	Dredging—Savannah, Ga. Adv. June 26.	June 26
July 21	Dredging—Baltimore, Md. Adv. June 26.	June 26
July 22	Dredging—Sault Ste Marie, Mich. Adv. June 26.	June 26